

Solicitation No.
PROF SVC 25-26

June 30, 2025



**COUNTY OF HAWAII OFFICE OF SUSTAINABILITY CLIMATE
CHANGE, EQUITY AND RESILIENCE**

Professional Services FY2026

- OS.1 Ecology
- OS.3 Forestry (Watershed Management)
- OS.5 General Natural Resources Management and Biological Sciences Series

June 30, 2025

Ms. Laura Acasio, Administrator
County of Hawai'i, Office of Sustainability, Climate Change, Equity and Resilience
25 Aupuni Street, Suite 1301
Hilo, Hawai'i 96720
Via email: oscer@hawaiicounty.gov

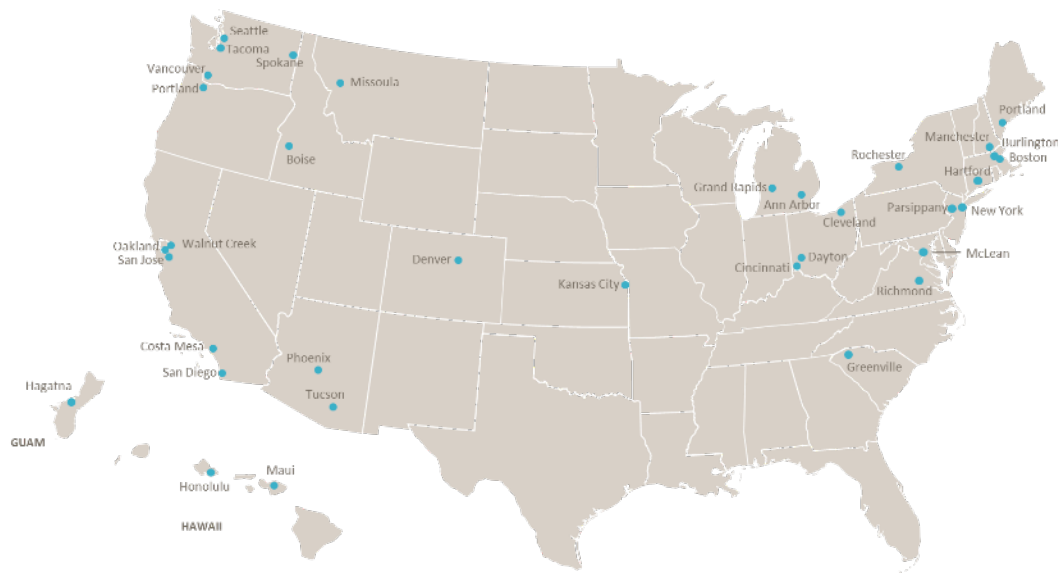
Subject: **PROFESSIONAL SERVICES FOR FISCAL YEAR 2025 TO 2026**

Dear Ms. Acasio:

Haley & Aldrich, Inc. appreciates the opportunity to submit our statement of qualifications (SOQ) in response to the County of Hawai'i's Notice for Professional Services (Solicitation No. PROF SVC 25-26) for providing consulting services during the fiscal year from 2025 to 2026. We offer a highly qualified, Hawai'i-based team with significant work experience and staff presence in Hawai'i County.

1) Firm Name and Offices

Haley & Aldrich is an environmental, natural resources, and geotechnical engineering consulting firm registered to do business in Hawai'i, with local offices on O'ahu (Honolulu) and Maui (Makawao) and staff on the island of Hawai'i. From more than 40 locations throughout the continental United States, Hawai'i, and Guam, Haley & Aldrich offers a full range of environmental, geotechnical, and natural resource planning, design, and construction monitoring services.



O'AHU OFFICE

Haley & Aldrich, Inc.
500 Ala Moana Boulevard, Suite 6-250
Honolulu, HI 96813
808.587.7747

MAUI OFFICE

Haley & Aldrich, Inc.
12 Kiopa'a Street, Suite 202
Makawao, HI 96768
808.587.7747

2) Age of the Firm

For 68 years, Haley & Aldrich has been committed to delivering the value our clients need from their projects. Since establishing our Hawai'i office in 2015, our local team has grown to 26 engineers and scientists on O'ahu, Maui, and Hawai'i. Our Hawai'i staff has strong relationships with regulators and community partners, and we know how to successfully accomplish projects throughout the state. Our one-team approach allows us to draw from over 1,000 engineers and scientists across the country for specialty expertise in environmental, geotechnical, natural resource consulting and construction management services.

3) Qualifications of Key Staff

The education, training, and qualifications of the key members of Haley & Aldrich who may provide services to the County are included in their resumes in Section E of our SF330 (attached). Our Hawai'i staff includes:

- » **Principal Resilience Lead, Melissa May, AICP** with over 20 years of experience in community and resilience planning across Hawai'i. Melissa has led multiple award-winning planning projects for land use, transportation, and resilience planning projects statewide.
- » **Principal Environmental Manager, Dennis Peters**, with over 30 years of consulting experience supporting municipal, state, and federal/Department of Defense agencies and commercial clients.
- » **Principal Environmental Scientist, Simone Simbeck**, who has provided multi-media environmental compliance and permitting support to numerous clients throughout her nearly 20-year career.
- » Kona resident and **Senior Engineer, Dave Buscheck, PE**, who specializes in construction management and geotechnical engineering.
- » **Biologist/Environmental Planner, Taylor Chock**, who provides outstanding project management in achieving environmental permitting success for infrastructure projects.
- » **Resilience Specialist, Daniele Spirandelli**, who has several years of experience providing resilience and climate change adaptation consultation in Hawai'i.



4) Clients / References

Ten representative projects are provided in Section F of the attached SF330. The following clients can attest to our performance during the past year. Additional references are included for each highlighted project in our SF330, Section F.

- » Albert Hahn – County of Maui DPW Highways; 808.264.4963
- » Ikaika Kincaid – Consor, Inc.; 808.726.2909
- » Stacy Paquette – State of Hawai'i DOT-Airports; 808.838.8656
- » Mike Hunnemann – KAI Hawai'i, Inc.; 808.791.3980
- » Terrance Arashiro – Austin, Tsutsumi & Associates, Inc.; 808.533.3646

5) Promotional Materials

The attached Statement of Qualifications in SF330 format provides additional information on our experience and capabilities in response to your Solicitation No. PROF SVC 25-26.

6) List of Projects or Services

Haley & Aldrich offers the County our expertise for the following **categories of service** listed in the Notice to Providers of Professional Services:

| Service Area | |
|--------------|---|
| OS.1 | Ecology |
| OS.3 | Forestry (Watershed Management) |
| OS.5 | General Natural Resources Management and Biological Sciences Series |

Please let us know if we can provide additional information or answer any questions you may have regarding this submittal.

Sincerely yours,

HALEY & ALDRICH, INC.



Melissa May, AICP
Principal Resilience Lead
MMay@haleyaldrich.com | 808.650.3288

Attachments:

- » Statement of Qualifications (SF330 Parts I and II)

Statement of Qualifications (SF330 Parts I and II)

Architect – Engineer Qualifications Part I – Contract Specific Qualifications

A. CONTRACT INFORMATION

1. TITLE AND LOCATION (CITY AND STATE)

County of Hawai'i FY2026 Professional Services – Office of Sustainability Climate Change, Equity and Resilience
County of Hawai'i, Hawai'i

2. PUBLIC NOTICE DATE

06/01/2025

3. SOLICITATION OR PROJECT NUMBER

PROF SVC 25-26

B. ARCHITECT-ENGINEER POINT OF CONTACT

4. NAME AND TITLE

Melissa May, AICP, Principal Resilience Lead

5. NAME OF FIRM

Haley & Aldrich, Inc.

6. TELEPHONE NUMBER

808.650.3288

7. FAX NUMBER

N/A

8. E-MAIL ADDRESS

MMay@haleyaldrich.com

C. PROPOSED TEAM

(Complete this section for the prime contractor and all key subcontractors.)

| | Prime | J-V Partner | Subcontractor | 9. FIRM NAME | 10. ADDRESS | 11. ROLE IN THIS CONTRACT |
|---|-------|-------------|---------------|---|---|---|
| | | | | | | |
| a | X | | | Haley & Aldrich, Inc. (Honolulu) <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE | 500 Ala Moana Blvd Suite 6-250 Honolulu, HI 96813 | Project Management Professional Services |
| b | | | | Haley & Aldrich, Inc. (Maui) <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE | 12 Kiopa'a Street Suite 202 Makawao, HI 96768 | Professional Services |
| c | | | | Haley & Aldrich, Inc. (Portland) <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE | 4386 S. Macadam Avenue Suite 101 Portland, OR 97239 | Professional Services |
| d | | | | Haley & Aldrich, Inc. (Seattle) <input checked="" type="checkbox"/> CHECK IF BRANCH OFFICE | 3131 Elliott Avenue Suite 600 Seattle, WA 98121 | Professional Services |
| e | | | | <input type="checkbox"/> CHECK IF BRANCH OFFICE | | |
| f | | | | <input type="checkbox"/> CHECK IF BRANCH OFFICE | | |
| g | | | | <input type="checkbox"/> CHECK IF BRANCH OFFICE | | |

D. ORGANIZATIONAL CHART OF PROPOSED TEAM (ATTACHED)



Melissa May, AICP
Principal Resilience Lead
ROLE: Program Manager

| Ecology, Forestry, and General Natural Resources Management | |
|---|--|
| Taylor Chock Biologist/Environmental Planner, Project Manager | Tim Walters, PhD, FWS Technical Expert |
| Benjamin Bonahoom Sustainability Coordinator | Simone Simbeck Principal Environmental Scientist |
| Matthew Fong Environmental Scientist/GIS | Danielle Spirandelli, PhD Senior Climate Resilience Specialist |
| Rory Earley Environmental Scientist | Laura Hanson Resilience Engagement Specialist |
| Jim Shannon Senior Biologist/Wetlands Scientist | |

TEAM ORGANIZATION

Professional Services FY26
Solicitation No. PROF SVC FY25-26

E. Resumes of Key Personnel Proposed for this Contract

(Complete one Section E for each key person.)

| 12. NAME | 13. ROLE IN THIS CONTRACT | 14. YEARS EXPERIENCE | |
|--------------------------|--|----------------------|----------------------|
| Melissa May, AICP | Program Manager, Principal Resilience Lead | a. Total | b. With Current Firm |
| | | 20 | 1 |

15. FIRM NAME AND LOCATION (CITY AND STATE)
Haley & Aldrich, Inc., Honolulu, HI

| 16. EDUCATION (DEGREE AND SPECIALIZATION) | 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) |
|--|--|
| M.A., Anthropology B.S., Environmental Studies Certificate in Cultural Resource Management | 2016: American Institute of Certified Planners (Reg. No. 029129) |

18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.)
Qualifications: Brings together diverse stakeholders including residents, government agencies, private sector, and technical experts to create shared visions and implement plans and policies for resilient and sustainable communities. Melissa has worked in community and resilience planning across Hawai'i for over 20 years, leading multiple award-winning projects.

| 19. RELEVANT PROJECTS | |
|--|--|
| (1) Title and Location (City and State) | (2) Year Completed |
| <p>Honolulu Department of Planning and Permitting Transit Oriented Development Division, Honolulu Climate Adaptation Design Principles Honolulu, HI</p> <p>(3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role Melissa led a project to develop preliminary design guidance for developers and City agencies to make urban development more resilient to climate hazards including flooding, extreme heat, and sea level rise. The project was recognized with a Best Practice Award from the Hawai'i Chapter of APA.</p> | <p>Professional Services Construction (If Applicable) 2020</p> <p><input type="checkbox"/> Check If Project Performed With Current Firm</p> |
| <p>County of Maui Department of Parks and Recreation, Hoaloha Park Climate Adaptation Plan Kahului, HI</p> <p>(3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role Melissa served as project manager to develop a climate adaptation plan for a heavily used park in Kahului Harbor on Maui. Adaptation pathways were developed in close coordination with park users and other stakeholders and incorporated modeling of anticipated sea level rise, erosion, and other climate change-related impacts.</p> | <p>Professional Services Construction (If Applicable) 2025</p> <p><input type="checkbox"/> Check If Project Performed With Current Firm</p> |
| <p>Honolulu Board of Water Supply (BWS) East Honolulu Watershed Management Plan Honolulu, HI</p> <p>(3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role Melissa served as project manager, assisting the BWS with a plan to identify critical water issues and future demand scenarios for water use in East Honolulu. Recommended projects and strategies were developed to address issues and ensure a sustainable water supply for East Honolulu over the next 20 years. The Plan was widely supported by the community and adopted unanimously by the City Council.</p> | <p>Professional Services Construction (If Applicable) 2024</p> <p><input type="checkbox"/> Check If Project Performed With Current Firm</p> |
| <p>Kaua'i County Special Treatment-Coastal Edge Overlay Zone Kaua'i, HI</p> <p>(3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role Melissa drafted the development standards and review criteria for the County's newly created Special Treatment-Coastal Edge zone and Sea Level Rise Constraint District. The project received national and Hawai'i chapter APA awards.</p> | <p>Professional Services Construction (If Applicable) 2022</p> <p><input type="checkbox"/> Check If Project Performed With Current Firm</p> |
| <p>State of Hawai'i Office of Planning and Sustainable Development Coastal Zone Management Program, Analysis of Managed Retreat Strategies in Hawai'i: Policy and Funding Opportunities and Challenges, Statewide, HI</p> <p>(3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role Melissa was project manager for this study analyzing policy and funding opportunities and challenges for implementing managed retreat in Hawai'i. The study sought to identify needed changes to policies as well as financing and funding strategies to support managed retreat as part of climate adaptation in Hawai'i. The policy, legal, and financial strategies were applied to case studies at Sunset Beach on O'ahu and in West Maui.</p> | <p>Professional Services Construction (If Applicable) 2025</p> <p><input type="checkbox"/> Check If Project Performed With Current Firm</p> |

E. Resumes of Key Personnel Proposed for this Contract

(Complete one Section E for each key person.)

| 12. NAME | 13. ROLE IN THIS CONTRACT | 14. YEARS EXPERIENCE | |
|---------------------|--|----------------------|----------------------|
| | | a. Total | b. With Current Firm |
| Taylor Chock | Biologist/Environmental Planner, Project Manager | 12 | 3 |

15. FIRM NAME AND LOCATION (CITY AND STATE)
Haley & Aldrich, Inc., Honolulu, HI

| 16. EDUCATION (DEGREE AND SPECIALIZATION) | 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) |
|---|--|
| MA, Ecology and Evolutionary Biology (EBIO) BA, Biology with Honors, Minors in Chemistry and Economics | Hawai'i Lead Inspector (No. PB-0993); Hawai'i Asbestos Inspector (No. HIASB-4478); PADI Open Water SCUBA Certification; State of Hawai'i Boating License; USACE Wetland Delineation Certification (Cert. No. 9267; 2023) |

18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.)
Qualifications: Taylor is a biologist and natural resources professional. Her experience includes environmental assessment and impact statements, remedial investigations, and feasibility studies for various federal, state and county projects throughout the Pacific Rim. Taylor recently obtained her 38-hour Army Corps of Engineers Wetland Delineation Training Certificate.

| 19. RELEVANT PROJECTS | | |
|---|--|--------------------------------------|
| (1) Title and Location (City and State) | (2) Year Completed | |
| Waipi'o Valley Road Short Term Safety Improvements Island of Hawai'i, HI | Professional Services 2023 | Construction (If Applicable) 2023 |
| a (3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role Project biologist and environmental planner for rockfall and hazards mitigation evaluation for the Waipi'o Valley Road project for the County of Hawai'i. Taylor prepared the Biological Assessment, State Conservation District Use Permit, County Grading Permit, and interfaced with SHPD and the Archaeologist. | <input checked="" type="checkbox"/> Check If Project Performed With Current Firm | |
| Four Mile Creek Bridge Improvements (Bridge #22-7) Island of Hawai'i, HI | Professional Services Ongoing | Construction (If Applicable) |
| b (3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role Project biologist and Lead Environmental Planner supporting CONSOR Engineers, LLC and the County of Hawai'i for geotechnical aspects of design build bridge replacement. Provided permitting support for design and construction of new bridge foundations and associated site improvements. | <input checked="" type="checkbox"/> Check If Project Performed With Current Firm | |
| Geotechnical & Permitting Support, Restoration of Stream Crossings, Lihu'e-Ko'loa Forest Reserve, Kaua'i, HI | Professional Services Ongoing | Construction (If Applicable) |
| c (3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role Project Biologist for restoration of stream crossings on the Lihu'e-Ko'loa Forest Reserve Roadway, owned by Department of Land and Natural Resources. The roadway and stream crossings were severely damaged from significant storms on Kaua'i between 2018 and 2020. Haley & Aldrich is providing natural resource, environmental planning, and geotechnical services for the design of new stream crossings. | <input checked="" type="checkbox"/> Check If Project Performed With Current Firm | |
| Hanalei National Wildlife Refuge River Intake Repair and NEPA Permitting, Kaua'i, HI | Professional Services Ongoing | Professional Services N/A |
| d (3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role Project Biologist for the preparation of NEPA and environmental planning compliance studies and documents related to evaluation of alternative surface water intake structure locations and designs within the Hanalei National Wildlife Refuge. The work is necessitated by the destruction of irrigation water distribution systems on the refuge by a severe storm in 2018. | <input checked="" type="checkbox"/> Check If Project Performed With Current Firm | |
| Central O'ahu Food Hub Environmental Compliance Support Wahiawā, HI | Professional Services Ongoing | Construction (If Applicable) |
| e (3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role Staff environmental scientist providing hazardous materials sampling and reporting services for redevelopment of a commercial agricultural development. Project includes development of a sampling plan based on available information, coordinating drilling and sampling, data analyses, reporting, and development of a Construction Environmental Hazard Management Plan. | <input checked="" type="checkbox"/> Check If Project Performed With Current Firm | |

E. Resumes of Key Personnel Proposed for this Contract

(Complete one Section E for each key person.)

| 12. NAME | 13. ROLE IN THIS CONTRACT | 14. YEARS EXPERIENCE | |
|--------------------------|----------------------------|----------------------|----------------------|
| | | a. Total | b. With Current Firm |
| Benjamin Bonahoom | Sustainability Coordinator | 6 | 3 |

15. FIRM NAME AND LOCATION (CITY AND STATE)

Haley & Aldrich, Inc., Honolulu, HI

16. EDUCATION (DEGREE AND SPECIALIZATION) 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)

BS, Public and Environmental Affairs

N/A

18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.)

Qualifications: Manages greenhouse gas inventories, tracks evolving ESG regulations, and supports both internal and client sustainability initiatives. Works closely with senior leadership to provide data analysis, reporting, and strategic guidance, helping organizations navigate a rapidly changing regulatory and market landscape. Innovative thinking, technically orientated environmental scientist and urban planner serving the needs of energy and utilities, transportation, private/commercial developers, and municipalities, throughout the US. Experienced in construction management and oversight, urban planning, permitting and compliance across all governmental levels, Conceptual Site Modeling, data collection management and interpretation, wetland delineation, environmental inspection and audit, Clean Water Act Section 404 permitting, threatened and endangered species protection and permitting.

19. RELEVANT PROJECTS

| | (1) Title and Location (City and State) | (2) Year Completed | |
|---|--|--|------------------------------|
| | | Professional Services | Construction (If Applicable) |
| a | Environmental Engineering and Compliance Support, Statewide Airports , Multiple Islands, HI | Ongoing | N/A |
| | (3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role Staff Environmental Scientist for the contract to provide environmental compliance consulting services for 15 of HDOT's airports. Ben supports environmental compliance inspections of airport and tenant facilities across multiple airports. He assists with construction inspections and design reviews, and helped with conducting field inspections, providing reports and related technical resources to tenants, contractors, and airport staff, and providing follow-up to reinforce compliance. Ben also conducted drainage system surveys and updated ArcGIS maps to be included in HDOT-Airport's asset management system, Veoci®. | <input checked="" type="checkbox"/> Check If Project Performed With Current Firm | |
| b | Central O'ahu Food Hub Environmental Compliance Support Wahiawa, HI. | Ongoing | Construction (If Applicable) |
| | (3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role Staff Environmental Scientist providing environmental consulting support, including hazardous materials/environmental sampling and reporting services, for redevelopment of a commercial agricultural development. Project includes development of a sampling plan based on available information, coordinating drilling and sampling, data analyses, reporting, and development of a Construction Environmental Hazard Management Plan. | <input checked="" type="checkbox"/> Check If Project Performed With Current Firm | |
| c | Environmental Permitting Services, West Maui Water Recycling Project Dewatering , Maui, HI | 2023 | 2023 |
| | (3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role Staff environmental scientist supporting the NPDES permit for dewatering a deep excavation at the West Maui Water Recycling project. Ben prepared dewatering calculations and consulting with the contractor to develop the dewatering plan. He prepared and submitted the permit application to DOH. | <input checked="" type="checkbox"/> Check If Project Performed With Current Firm | |
| d | Stormwater and Spill Prevention Consulting, Multiple Shipping and Navigation Clients , O'ahu, HI | 2022 | N/A |
| | (3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role Staff environmental scientist managing the stormwater and spill prevention portfolio for multiple shipping and navigation clients. Also supported client relations, regulatory interaction, led field sampling efforts, and prepared compliance submittals. | <input type="checkbox"/> Check If Project Performed With Current Firm | |
| e | Renewable Energy Construction Compliance Inspector Lafayette & Muncie, Indiana. | 2021 | N/A |
| | (3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role Assistant environmental scientist responsible for conduction monthly construction compliance inspections of two wind energy generation projects. Reviewed and created environmental documents, permits, and monthly reports for regulatory compliance. Ensured all permits and regulations were followed during project construction. | <input type="checkbox"/> Check If Project Performed With Current Firm | |

E. Resumes of Key Personnel Proposed for this Contract

(Complete one Section E for each key person.)

| 12. NAME | 13. ROLE IN THIS CONTRACT | 14. YEARS EXPERIENCE | |
|---------------------|-----------------------------|----------------------|----------------------|
| | | a. Total | b. With Current Firm |
| Matthew Fong | Environmental Scientist/GIS | 9 | 7 |

15. FIRM NAME AND LOCATION (CITY AND STATE)

Haley & Aldrich, Inc., Honolulu, HI

16. EDUCATION (DEGREE AND SPECIALIZATION) 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)

BS, Natural Resources and Environmental Management N/A

18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.)

Qualifications: Environmental professional who has demonstrated a proficiency in a wide variety of tasks that support planning, geotechnical, natural resources, permitting and compliance projects statewide. His field experience includes water/soil sampling and analysis, natural resource assessments, facility condition assessments, and wetland/Army Corps jurisdictional determinations. Matt excels at research, database management, GIS mapping, and serves as Haley & Aldrich’s Hawai’i Health and Safety Officer.

19. RELEVANT PROJECTS

| | (1) Title and Location (City and State) | (2) Year Completed | Professional Services | Construction (If Applicable) |
|---|--|--------------------|--|------------------------------|
| a | MS4 NPDES Permit Program Management Maui, HI (3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role Environmental Scientist for various tasks supporting the implementation of the Storm Water Management Program, including outfall inspections as part of the illicit discharge detection and elimination program, and GIS mapping of the County’s MS4. | Ongoing | <input checked="" type="checkbox"/> Check If Project Performed With Current Firm | N/A |
| b | Geotechnical & Permitting Support, Restoration of Stream Crossings, Līhu‘e-Kōloa Forest Reserve, Kaua‘i, HI (3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role Staff Scientist providing GIS support for restoration of four stream crossings damaged from significant storm. | Ongoing | <input checked="" type="checkbox"/> Check If Project Performed With Current Firm | N/A |
| c | Stream Maintenance Permitting Maui and Moloka‘i, HI (3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role Environmental Scientist for conducting wetland and natural resources evaluations as part of the assessment of permitting requirements for County stream and basin sediment and debris clearing activities. The project includes preliminary site assessments, mapping, agency meetings and negotiations, and the development of permit applications for agency review. | Ongoing | <input checked="" type="checkbox"/> Check If Project Performed With Current Firm | N/A |
| d | EIS PVT Integrated Solid Waste Management Facility O‘ahu, HI (3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role Environmental Planner who prepared the public and emergency services and the “Other Considerations” sections of the EIS. He incorporated responses to comments, proofread and produced the EIS, prepared OEQC forms, prepared GIS figures, and distributed the EIS. He provided other support as needed. | 2020 | <input checked="" type="checkbox"/> Check If Project Performed With Current Firm | N/A |
| e | Environmental Engineering and Compliance Support, Statewide Airports, Multiple Islands, HI (3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role Staff Scientist supporting the comprehensive program providing the DOTA with environmental engineering and compliance support at 15 airports statewide. Project includes consultation for implementation of storm water management practices, Best Management Practices program inspections, and illicit discharge detection and elimination. Matthew leads work related to airport drainage wells, including modifying and renewing UIC permits, monthly inspections of wells, and assessments for well improvements. | Ongoing | <input checked="" type="checkbox"/> Check If Project Performed With Current Firm | N/A |

E. Resumes of Key Personnel Proposed for this Contract

(Complete one Section E for each key person.)

| 12. NAME | 13. ROLE IN THIS CONTRACT | 14. YEARS EXPERIENCE | |
|--------------------|---------------------------|----------------------|----------------------|
| | | a. Total | b. With Current Firm |
| Rory Earley | Environmental Scientist | 4 | 1 |

15. FIRM NAME AND LOCATION (CITY AND STATE)
Haley & Aldrich, Inc., Honolulu, HI

16. EDUCATION (DEGREE AND SPECIALIZATION) 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE)
M.P.P, Environmental Policy; B.S., Environmental Science

18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.)

Qualifications: Rory is an environmental scientist with specialized experience with Hawai'i State and Federal environmental permitting. Her scope of experience includes environmental planning of flood plain management studies, ecosystem restoration projects, and flood risk management projects; from initial feasibility studies to design and construction. Rory has worked on infrastructure projects at a range of scales, from ½ acre bespoke remediation projects to County-wide utilities infrastructure redesign.

19. RELEVANT PROJECTS

| | | | |
|---|---|---|---|
| a | (1) Title and Location (City and State) American Samoa Climate Change Vulnerability Assessment and Planning Assistance Pago Pago, American Samoa | (2) Year Completed Professional Services Ongoing | Construction (If Applicable) N/A |
| | (3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role This assessment and planning assistance analyzed threats to populations and critical hydrologic infrastructure in American Samoa, and recommends infrastructure development to increase resilience. Rory's role on this project was as a project manager, responsible for defining and managing the scope, schedule and budget, and planner, responsible for interpreting the existing conditions and formulating plan alternatives. | <input type="checkbox"/> Check If Project Performed With Current Firm | |
| b | (1) Title and Location (City and State) Kahalu'u Bay Aquatic Ecosystem Restoration Kona, Island of Hawai'i, HI | (2) Year Completed Professional Services Ongoing | Construction (If Applicable) N/A |
| | (3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role Rory was the primary planner on this project, responsible for coordinating environmental compliance and public involvement, and for plan formulation and alternative analysis. This included a detailed Section 106 consultation process and extensive collaboration with NOAA and USFWS regarding coral reef restoration alternatives. | <input type="checkbox"/> Check If Project Performed With Current Firm | |
| c | (1) Title and Location (City and State) Wailupe Stream Flood Risk Management Oahu, HI | (2) Year Completed Professional Services Ongoing | Construction (If Applicable) N/A |
| | (3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role Support planner responsible for alternative analysis and environmental compliance on the Wailupe Stream Flood Risk Management program, which first began in 1998. This role included detailed risk analysis and plan formulation alternatives analysis. | <input type="checkbox"/> Check If Project Performed With Current Firm | |
| d | (1) Title and Location (City and State) Tafuna Flood Risk Management Feasibility Study Tutuila, American Samoa | (2) Year Completed Professional Services Ongoing | Construction (If Applicable) N/A |
| | (3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role Rory served as a support planner on a feasibility study focused on flash flooding in the Tafuna floodplain, a densely populated area on the island of Tutuila, American Samoa. Rory compared arrays of alternative design solutions to flooding, including culverts, debris basins, and interior drainage. The work included GIS-based structure inventory surveys, on-foot structure inventory surveys, project risk identification and assessment. | <input type="checkbox"/> Check If Project Performed With Current Firm | |
| e | (1) Title and Location (City and State) City of San Diego Pure Water Program Management and Construction San Diego, CA | (2) Year Completed Professional Services Ongoing | Construction (If Applicable) Ongoing |
| | (3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role Pure Water San Diego is the City of San Diego's phased, multi-year program that will provide nearly half of San Diego's water supply locally by the end of 2035. Rory managed environmental requirements as related to public notification, community outreach and involvement for 12 concurrent Phase 1 projects at different sites. | <input type="checkbox"/> Check If Project Performed With Current Firm | |

E. Resumes of Key Personnel Proposed for this Contract

(Complete one Section E for each key person.)

| | | | |
|--------------------|-------------------------------------|-----------------------------|-----------------------------------|
| 12. NAME | 13. ROLE IN THIS CONTRACT | 14. YEARS EXPERIENCE | |
| Jim Shannon | Senior Biologist/Wetlands Scientist | a. Total 28 | b. With Current Firm 12 |

| |
|--|
| 15. FIRM NAME AND LOCATION (CITY AND STATE) |
| Haley & Aldrich, Inc., Seattle, WA |

| | |
|--|---|
| 16. EDUCATION (DEGREE AND SPECIALIZATION) | 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) |
| MS, Biology BS, Business Administration | Certified Fisheries Professional, American Fisheries Society (AFS) |

18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.)
Qualifications: Specializes in all aspects of NEPA compliance, including project scoping, development of strategy and work plans, and management and preparation of EISs, EAs, and Environmental Checklists. He is a biologist with extensive experience in biological evaluations, endangered species consultations, and permitting.

| | | | |
|------------------------------|---|--|---|
| 19. RELEVANT PROJECTS | | | |
| | (1) Title and Location (City and State) | (2) Year Completed | |
| a | Stream Maintenance Permitting Maui and Moloka'i, HI | Professional Services Ongoing | Construction (If Applicable) N/A |
| | (3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role | <input checked="" type="checkbox"/> Check If Project Performed With Current Firm | |
| | Senior Project Biologist for wetland and natural resources evaluations as part of the assessment of permitting requirements for County stream maintenance activities. Supervised field wetland delineations and mapping of ordinary high-water mark. The project includes preliminary site assessments, mapping, agency meetings and negotiations, and the development of permit applications for agency review. | | |
| b | (1) Title and Location (City and State) | (2) Year Completed | |
| | Environmental Planning and Permitting, Waiāhole Bridge Replacement O'ahu, HI | Professional Services Ongoing | Construction (If Applicable) Ongoing |
| | (3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role | <input checked="" type="checkbox"/> Check If Project Performed With Current Firm | |
| | Biologist for this project evaluating natural resources and environmental permitting considerations for the proposed bridge replacement. Jim conducted and supervised stream and wetland surveys, preparation of a biological survey report, and consultation with USFWS and NOAA regarding endangered species and construction BMPs to protect species. | | |
| c | (1) Title and Location (City and State) | (2) Year Completed | |
| | Hanalei National Wildlife Refuge River Intakes Repair and NEPA/Permitting, Kaua'i, HI | Professional Services Ongoing | Construction (If Applicable) Ongoing |
| | (3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role | <input checked="" type="checkbox"/> Check If Project Performed With Current Firm | |
| | Consulting Biologist for NEPA documentation for the repair and evaluation alternatives for an intake on the Hanalei River used by the USFWS to manage water levels in the Hanalei Wildlife Refuge. Scope includes permit needs evaluation for five conceptual design alternatives, NEPA/HEPA EA, CWA Section 404 and other permits needed for work in the stream, coordination with the Heritage River local coordinating entity, and coordination with regulatory agencies. Jim conducted the project biological survey, wetland delineations, and Ordinary High-Water Mark (OHWM) determinations. | | |
| d | (1) Title and Location (City and State) | (2) Year Completed | |
| | Gustavus Ferry Terminal Expansion, Alaska DOT & PF Gustavus, AK | Professional Services 2020 | Construction (If Applicable) 2020 |
| | (3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role | <input checked="" type="checkbox"/> Check If Project Performed With Current Firm | |
| | Jim led the Section 7 of ESA consultation for the Alaska Department of Transportation & Public Facilities and the Federal Highways Administration in consulting with NMFS on this pile driving project. He evaluated project impacts to seven species of marine mammals and provided monitoring plans to minimize project impacts. | | |
| e | (1) Title and Location (City and State) | (2) Year Completed | |
| | Kahului Airport Wildlife Hazard Assessment Maui, HI | Professional Services 2020 | Construction (If Applicable) N/A |
| | (3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role | <input checked="" type="checkbox"/> Check If Project Performed With Current Firm | |
| | Project Biologist for the FAA-required wildlife hazard assessment (WHA) and Wildlife Hazard Management Plan (WHMP) for Kahului Airport, including field surveys of avian, large mammal, small mammal, and insects with concurrent vegetation and perimeter surveys for WHA report. | | |

E. Resumes of Key Personnel Proposed for this Contract

(Complete one Section E for each key person.)

| 12. NAME | 13. ROLE IN THIS CONTRACT | 14. YEARS EXPERIENCE | |
|-----------------------------------|----------------------------|----------------------|----------------------|
| | | a. Total | b. With Current Firm |
| Tim Walters, PhD, PWS, CSE | Senior Ecologist, Botanist | 30 | 7 |

| |
|--|
| 15. FIRM NAME AND LOCATION (CITY AND STATE) |
| Haley & Aldrich, Inc., Portland, OR |

| 16. EDUCATION (DEGREE AND SPECIALIZATION) | 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) |
|---|--|
| PhD, Biology-Botany MS, Biology BA, Biology | Professional Wetland Scientist (PWS) Certified Senior Ecologist (CSE) |

18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.)

Qualifications: Brings nearly 30 years of experience as a subject matter expert and technical specialist as a botanist, wetland ecologist, and project manager. Has conducted hundreds of threatened and endangered plant surveys, terrestrial and aquatic plant community surveys, stream surveys, permitting, mitigation planning, design, and monitoring projects. Performs rare plant surveys, faunal, and community ecology assessments in some of the most rare and diverse areas of the United States.

| 19. RELEVANT PROJECTS | | |
|--|--|-------------------------------------|
| (1) Title and Location (City and State) | (2) Year Completed | |
| Stream Maintenance Permitting, Maui and Moloka'i, HI | Professional Services 2020 | Construction (If Applicable) N/A |
| (3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role | <input checked="" type="checkbox"/> Check If Project Performed With Current Firm | |
| a Served as lead wetland scientist for wetland and natural resources evaluations as part of the assessment of permitting requirements for County stream maintenance activities. Supervised field wetland delineations and mapping of ordinary high-water mark. The project includes preliminary site assessments, mapping, agency meetings and negotiations, and the development of permit applications for agency review. | | |
| (1) Title and Location (City and State) | (2) Year Completed | |
| Piawai Reservoir Dam Decommissioning Project, Lawai, Kauai, Hawaii | Professional Services 2025 | Construction (If Applicable) N/A |
| (3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role | <input checked="" type="checkbox"/> Check If Project Performed With Current Firm | |
| b Lead wetland scientist and botanist for wetland and biological resources evaluation to support federal and state permitting efforts for dam decommissioning activities and design in Lawai, on the island of Kauai. Conducted jurisdictional determination surveys and botanical surveys for the project to relocate a service access road and waterline to the northside of the reservoir and provided consulting services to guide wetland mitigation planning and endangered waterbird habitat assessments. | | |
| (1) Title and Location (City and State) | (2) Year Completed | |
| Kagman Watershed Flood Protection and Irrigation Supply Project, Saipan, Common Northern Mariana Islands | Professional Services 2025 | Construction (If Applicable) N/A |
| (3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role | <input checked="" type="checkbox"/> Check If Project Performed With Current Firm | |
| c Lead botanist for biological and wetland resources evaluations for Section 7 Endangered Species Act (ESA) Consultation for the final three phases of the nine-phase Kagman Watershed Project in Saipan. Prepared a biological evaluation report and biological resources-related sections for the Supplemental Watershed Plan – Environmental Document (SWP-ED)/Environmental Impact Statement (EIS). | | |
| (1) Title and Location (City and State) | (2) Year Completed | |
| US Fish and Wildlife Service (USFWS) Ridgefield National Wildlife Refuge, Ridgefield, WA | Professional Services 2024 | Construction (If Applicable) N/A |
| (3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role | <input checked="" type="checkbox"/> Check If Project Performed With Current Firm | |
| d Lead wetland scientist in the 10-acre wetland delineation for the USFWS for water intake upgrade. It was determined that the project would impact several lobes of a high-quality wetland supported by the water intakes. These areas were identified, flagged, and categorized using the USACE and Washington Department of Ecology's methods. Also, the ordinary high water mark was identified for Bachelors Slough. | | |
| (1) Title and Location (City and State) | (2) Year Completed | |
| Oregon Department of Energy Site Certificate Review of Vegetation Monitoring, OR | Professional Services Ongoing | Construction (If Applicable) N/A |
| (3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role | <input checked="" type="checkbox"/> Check If Project Performed With Current Firm | |
| e Botanist/ecologist reviewing the Site Certificates, Wildlife and Habitat Monitoring and Mitigation Plans and Noxious Weed Control Plans for 10 power-generating facilities for the Oregon Department of Energy (ODOE). Documents were assessed for compliance and status of the stated goals, and results were reported to ODOE to assist in their site facility review visit and improve future habitat mitigation and compliance. | | |

E. Resumes of Key Personnel Proposed for this Contract

(Complete one Section E for each key person.)

| | | | |
|---|---|--|-------------------------------------|
| 12. NAME | 13. ROLE IN THIS CONTRACT | 14. YEARS EXPERIENCE | |
| Simone Simbeck | Principal Environmental Scientist | a. Total | b. With Current Firm |
| | | 19 | 7 |
| 15. FIRM NAME AND LOCATION (CITY AND STATE) | | | |
| Haley & Aldrich, Inc., Honolulu, HI | | | |
| 16. EDUCATION (DEGREE AND SPECIALIZATION) | | 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) | |
| BS, Environmental Science Geographic Information Systems (GIS) Certificate | | CORMIX Mixing Zone Model Certificate; ISO 14001 Environmental Management System (EMS) Certificate | |
| 18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.) | | | |
| Qualifications: Senior environmental consultant and project manager with over 19 years of experience in Environmental Monitoring, Compliance and Storm Water Management, Impact Assessment, Instrumentation, and GIS. Valuable skills in regulatory compliance and reporting. Simone has worked on projects as a consultant for local government and private entities in Hawai'i, U.S. Mainland, New Zealand, and New Caledonia. | | | |
| 19. RELEVANT PROJECTS | | | |
| a | (1) Title and Location (City and State) | (2) Year Completed | |
| | Environmental Engineering and Compliance Support, Statewide Airports , Multiple Islands, HI | Professional Services Ongoing | Construction (If Applicable) N/A |
| (3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role | | <input checked="" type="checkbox"/> Check If Project Performed With Current Firm | |
| Project Manager for DOT's Airport Environmental compliance program at 15 airports statewide by providing education, training, inspections, recommendations for program improvements, and reporting. Project requires updating SPCC, NPDES and UIC permit documents; reviewing airport construction documents for compliance with DOTA's environmental requirements; conducting construction, underground injection control well and tenant BMP inspections; stormwater sampling and assisting with special projects and upgrades. | | | |
| b | (1) Title and Location (City and State) | (2) Year Completed | |
| | MS4 NPDES Permit Program Management Maui, HI | Professional Services Ongoing | Construction (If Applicable) N/A |
| (3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role | | <input checked="" type="checkbox"/> Check If Project Performed With Current Firm | |
| GIS Manager for the County's Storm Water Management Program. Managed GIS survey of the County's stormwater infrastructure in several areas of Maui. Project included field data gathering, digitization of historic plan files, and coordinating data delivery and GIS platform datasets. | | | |
| c | (1) Title and Location (City and State) | (2) Year Completed | |
| | Topa Financial Center Water Quality Studies and Compliance Support , O'ahu, HI | Professional Services Ongoing | Construction (If Applicable) N/A |
| (3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role | | <input checked="" type="checkbox"/> Check If Project Performed With Current Firm | |
| Project Manager providing compliance services for Topa's National NPDES permit to discharge once-through non-contact cooling water to Honolulu Harbor. The project involves quarterly and annual sampling and reporting events. Simone designed a program to demonstrate the exceedances of water quality standards at the receiving waters were not attributable to Topa, but to storm water drainage that discharges at the same outfall. | | | |
| d | (1) Title and Location (City and State) | (2) Year Completed | |
| | EIS PVT Integrated Solid Waste Management Facility O'ahu, HI | Professional Services 2020 | Construction (If Applicable) N/A |
| (3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role | | <input checked="" type="checkbox"/> Check If Project Performed With Current Firm | |
| Author/GIS on two EISs for PVT. She authored various HRS Ch. 343 EIS resource sections, prepared GIS figures, and peer reviewed resource sections. She responded to public comments and supported the land use permit application processes. | | | |
| e | (1) Title and Location (City and State) | (2) Year Completed | |
| | Phase I, Phase II Environmental Site Assessments, Department of Hawaiian Home Lands (DHHL) , O'ahu, HI | Professional Services 2017 | Construction (If Applicable) N/A |
| (3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role | | <input checked="" type="checkbox"/> Check If Project Performed With Current Firm | |
| Project Manager/Environmental Scientist who designed the sampling strategy, collected soil samples for analysis, prepared GIS figures and authored sections of the reports. | | | |

E. Resumes of Key Personnel Proposed for this Contract

(Complete one Section E for each key person.)

| 12. NAME | 13. ROLE IN THIS CONTRACT | 14. YEARS EXPERIENCE | |
|---|---|--|-------------------------------------|
| Daniele Spirandelli, PhD | Senior Climate Resilience Specialist | a. Total | b. With Current Firm |
| | | 18 | 3 |
| 15. FIRM NAME AND LOCATION (CITY AND STATE) | | | |
| Haley & Aldrich, Inc., Portland, OR | | | |
| 16. EDUCATION (DEGREE AND SPECIALIZATION) | | 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) | |
| PhD, Interdisciplinary Urban Design and Planning; MA, Landscape Architecture; BA, International Development, Community and Environment, Natural Resource Management | | | |
| 18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.) | | | |
| <p>Qualifications: Climate resiliency and sustainability expert with 11+ years of experience. Served 8 years as a Hawai'i consultant and academic professor specializing in urban ecology, climate resilience, land use, infrastructure, and environmental planning. Developed a FEMA-certified course, "Nature-Based Solutions for Hazards Mitigation", as a subject matter expert for the National Disaster Preparedness Training Center in Hawai'i.</p> | | | |
| 19. RELEVANT PROJECTS | | | |
| a | (1) Title and Location (City and State) | (2) Year Completed | |
| | <p>MS4 NPDES Permit Program Management Maui, HI</p> <p>(3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role Daniele is providing climate resiliency consultation for a study of stormwater controls related to flooding in Kihei.</p> | Professional Services Ongoing | Construction (If Applicable) N/A |
| | | <input checked="" type="checkbox"/> Check If Project Performed With Current Firm | |
| b | (1) Title and Location (City and State) | (2) Year Completed | |
| | <p>West Kaua'i Community Vulnerability Assessment Kaua'i, HI</p> <p>(3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role Principal Manager assessing vulnerabilities in West Kaua'i to coastal hazards and other associated climate change impacts on natural and infrastructure systems. Daniele translated technical data, analysis and findings into easy-to-understand terms for internal and public consumption. She also identified and maintained partner relationships and authored the final report.</p> | Professional Services 2018-2020 | Construction (If Applicable) N/A |
| | | <input type="checkbox"/> Check If Project Performed With Current Firm | |
| c | (1) Title and Location (City and State) | (2) Year Completed | |
| | <p>Hawai'i Volcano Recovery Plan and Multi-Hazard Mitigation Plan Update, Hawai'i County, HI</p> <p>(3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role Daniele provided consulting and environmental advisory services for climate resilience and sustainability, land use planning and policy assessment for Hawai'i County's Hawai'i Volcano Recovery Plan and Multi-Hazard Mitigation Plan update, policy analysis, user-behavioral research, stakeholder outreach, and grant application development.</p> | Professional Services 2019-2021 | Construction (If Applicable) N/A |
| | | <input type="checkbox"/> Check If Project Performed With Current Firm | |
| d | (1) Title and Location (City and State) | (2) Year Completed | |
| | <p>Assessing Vulnerability of Coastal Wastewater Infrastructure to Coastal Hazards and Climate Variability, University of Hawai'i at Mānoa O'ahu, HI</p> <p>(3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role Principal Manager for a climate change resilience assessment of centralized and decentralized wastewater infrastructure. Work included collection, analysis, and interpretation of climate change, population, housing, wastewater collections system, septic system, and cesspool data. Using regression analysis and statistics, Daniele developed an index of wastewater infrastructure vulnerability as an analytical tool to prioritize adaptation and resilience projects.</p> | Professional Services 2016-2018 | Construction (If Applicable) N/A |
| | | <input type="checkbox"/> Check If Project Performed With Current Firm | |
| e | (1) Title and Location (City and State) | (2) Year Completed | |
| | <p>Predicting Hawai'i Water Demand Under Climate Change, University of Hawai'i at Mānoa, O'ahu, HI</p> <p>(3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role Co-Manager and Supervisor for data collection and analysis of historical climate variables, water use, as built environment data for this University of Hawai'i at Mānoa project. Reviewed statistical analysis at parcel scale and oversaw development of a predictive model of future water demand under climate change scenarios.</p> | Professional Services 2018-2019 | Construction (If Applicable) N/A |
| | | <input type="checkbox"/> Check If Project Performed With Current Firm | |

E. Resumes of Key Personnel Proposed for this Contract

(Complete one Section E for each key person.)

| | | | |
|---------------------|----------------------------------|----------------------|----------------------|
| 12. NAME | 13. ROLE IN THIS CONTRACT | 14. YEARS EXPERIENCE | |
| | | a. Total | b. With Current Firm |
| Laura Hanson | Resilience Engagement Specialist | 21 | 2 |

15. FIRM NAME AND LOCATION (CITY AND STATE)
Haley & Aldrich, Inc., Portland, OR

| | |
|--|--|
| 16. EDUCATION (DEGREE AND SPECIALIZATION) | 17. CURRENT PROFESSIONAL REGISTRATION (STATE AND DISCIPLINE) |
| MBA Certificate, Entrepreneurial Leaders Program, Portland State University B.A., Political Science with minor Latin American Studies, Seattle Pacific University | PRINCE-2 Project Management Certificate |

18. OTHER PROFESSIONAL QUALIFICATIONS (PUBLICATIONS, ORGANIZATIONS, TRAINING, AWARDS, ETC.)
Qualifications: Laura is a seasoned manager with 20 years of experience in both international and domestic complex projects advancing disaster resilience, economic opportunities, and good governance. She brings expertise in management, team building, stakeholder engagement, planning, assessments, and both formative and evaluative research. Laura has technical experience in governance, disaster risk reduction and climate change adaptation, infrastructure resilience, market systems development, agriculture livelihoods and food security, as well as strategic communications and social behavior change (SBC).

| | | |
|-----------------------|---|--|
| 19. RELEVANT PROJECTS | | |
| a | (1) Title and Location (City and State) | (2) Year Completed |
| | Haley & Aldrich, Oregon Department of Energy (ODOE) Energy Security Plan Risk Assessment, Portland, OR | Professional Services Ongoing Construction (If Applicable) N/A |
| | (3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role | <input checked="" type="checkbox"/> Check If Project Performed With Current Firm |
| | As Senior Project Manager Laura manages a team of climate change and natural hazards experts to evaluate risks for electricity, natural gas and liquid fuels energy systems in the State of Oregon. The project includes methodology development and refinement, data and geospatial analysis, and the interpretation of findings to identify gaps and mitigation measures. | |
| b | (1) Title and Location (City and State) | (2) Year Completed |
| | Haley & Aldrich, Oregon Department of Human Services (ODHS) Seismic Islands Project, Portland, OR | Professional Services Ongoing Construction (If Applicable) N/A |
| | (3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role | <input checked="" type="checkbox"/> Check If Project Performed With Current Firm |
| | Laura leads a team of natural hazards and emergency management experts to validate and refine seismic “islands” (areas that become isolated in a catastrophic earthquake). She leads stakeholder engagement with county and tribal partners. The “islands” are an essential planning tool for Mass Care Services for State and local partners in preparation for an earthquake and tsunami. | |
| c | (1) Title and Location (City and State) | (2) Year Completed |
| | Regional Disaster Preparedness Organization, Emergency Transportation Routes, Portland, Oregon | Professional Services Construction (If Applicable) N/A |
| | (3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role | <input type="checkbox"/> Check If Project Performed With Current Firm |
| | As Senior Regional Resilience Planner, Laura led a complex group of planning stakeholders spanning transportation, infrastructure, and emergency management disciplines to conduct a regionwide update to local emergency transportation routes. The update incorporated the latest seismic impact data, aligning with Oregon Department of Energy lifeline routes, and reflecting updated infrastructure and critical facilities information. Laura provided project leadership and supervised the regional WG and consultant team, in close collaboration with Metro (regional government) transportation planning experts. | |
| d | (1) Title and Location (City and State) | (2) Year Completed |
| | Regional Disaster Preparedness Organization, Earthquake Economic Impact Analysis, Portland, OR | Professional Services Construction (If Applicable) N/A |
| | (3) Brief Description (Brief Scope, Size, Cost, Etc.) and Specific Role | <input type="checkbox"/> Check If Project Performed With Current Firm |
| | As Senior Regional Resilience Planner, Laura provided project management and stakeholder engagement for a technical study with ECONorthwest to build an economic model that translates the DOGAMI earthquake damage estimates into estimated impacts on local businesses. The model provides analysis by business sector, to generate policy recommendations to enhance economic resilience to a catastrophic earthquake event in the region. | |

F. Example Projects Which Best Illustrated Proposed Team's Qualifications for This Contract

(Present as many projects as requested by the agency, or 10 projects if not specified. Complete one Section F for each project)

| 20. EXAMPLE PROJECT KEY NUMBER | 21. TITLE AND LOCATION (CITY AND STATE) | 22. YEAR COMPLETED | |
|---|--|--------------------------------------|------------------------------|
| 1 | WSDOT Coastal Resilience Analysis Washington | Professional Services Ongoing | Construction (if applicable) |
| 23. PROJECT OWNERS INFORMATION | | | |
| a. Project Owner | b. Point of Contact Name | c. Point of Contact Telephone Number | |
| WSDOT HQ Hydraulics Office | Jason Koreski, Senior Technical Program Specialist | 360.201.0822 | |
| 24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (INCLUDE SCOPE, SIZE, AND COST) | | | |
| Project Cost: | Start/Completion Dates: | Client Quote or Other Relevant Data: | |
| \$598K | 2025/Ongoing | | |

WSDOT is increasingly challenged by sea level rise, storm surges, flooding, and erosion, which put infrastructure, habitats, and communities at risk. To address these threats, Haley & Aldrich is developing a structured, science-based methodology to assess climate-driven coastal hazards affecting critical roadways and related assets, such as bridges, culverts and fish passage. This approach will identify high-risk segments and prioritize nature-based solutions to address climate risks across 15 coastal counties. The project involves collaboration among partner state agencies and coordinating across four WSDOT vulnerability assessment efforts to ensure alignment of the analysis of hazards including future climate scenarios, the prioritized WSDOT transportation infrastructure, and the various assessment outputs. The Coastal Hazards assessment includes the development of a web-based visualization tool which may be leveraged to communicate outputs from all four efforts, as well as additional future studies.

| 25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT | | |
|---|------------------------------------|---------------------------------|
| (1) Firm Name | (2) Firm Location (City and State) | (3) Role |
| a Haley & Aldrich, Inc. | Vancouver, WA | Prime: Vulnerability assessment |

F. Example Projects Which Best Illustrated Proposed Team's Qualifications for This Contract

(Present as many projects as requested by the agency, or 10 projects if not specified. Complete one Section F for each project)

| 20. EXAMPLE PROJECT KEY NUMBER | 21. TITLE AND LOCATION (CITY AND STATE) | 22. YEAR COMPLETED | |
|---|---|--------------------------------------|------------------------------|
| 2 | City of San Leandro Sea Level Rise Adaptation Master Plan, City of San Leandro, CA | Professional Services | Construction (if applicable) |
| | | Ongoing | |
| 23. PROJECT OWNERS INFORMATION | | | |
| a. Project Owner | b. Point of Contact Name | c. Point of Contact Telephone Number | |
| City of San Leandro | Terraphase Engineering, Lucas W. Paz | 510.645.1850 | |
| 24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (INCLUDE SCOPE, SIZE, AND COST) | | | |
| Project Cost: | Start/Completion Dates: | Client Quote or Other Relevant Data: | |
| \$85K (Haley & Aldrich Fees to date) | 2024/Ongoing | | |

To support the City's goal of integrating equity into the plan, Haley & Aldrich led the development of a report summarizing the diverse range of San Leandro lived experiences, practices, expertise, and visions for the future to inform the community engagement process. Interviewees included City personnel and representatives from businesses, special districts, regional agencies, local community groups and tribes, service organizations, neighborhood groups, and other interest groups. We solicited input on current, past, and future flooding challenges, resilience measures, and opportunities for adapting to sea level rise.

Haley & Aldrich is identifying funding sources and financing strategies as part of the implementation plan, drawing on case studies from towns and municipalities from around the country and our experience researching and implementing financing mechanisms for both traditional gray infrastructure, as well as nature-based solutions. We are leveraging our knowledge developing the FEMA course, "Nature-Based Solutions for Hazards Mitigation," that includes funding strategies, such as federal and state grants, municipal bonds, environmental impact bonds, and the development of special taxes and financing districts, as well as public-private partnerships. Our report will lay out the benefits of these different financing mechanisms as well as important constraints and considerations.



- » Key expertise in stakeholder engagement, including the development of survey protocols, interview protocols, conducting individual and focus group interviews, and creating a shared understanding using maps to depict varying sea level rise scenarios and vulnerable assets.
- » Identified priorities, concerns, and community resilience efforts to shape the goals and outcomes of the Sea Level Rise Adaptation Plan. Helping to prioritize projects by targeting grants, municipal tax and financing, and public-private partnerships.

| 25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT | | | |
|---|-----------------------|------------------------------------|-----------------------------|
| a | (1) Firm Name | (2) Firm Location (City and State) | (3) Role |
| | Haley & Aldrich, Inc. | Portland, OR | Subconsultant: SLR Planning |

F. Example Projects Which Best Illustrated Proposed Team's Qualifications for This Contract

(Present as many projects as requested by the agency, or 10 projects if not specified. Complete one Section F for each project)

| 20. EXAMPLE PROJECT KEY NUMBER | 21. TITLE AND LOCATION (CITY AND STATE) | 22. YEAR COMPLETED | |
|---|--|--------------------------------------|------------------------------|
| 3 | Wildfire Risk Assessment for Railways, Nationwide | Professional Services | Construction (if applicable) |
| | | Ongoing | |
| 23. PROJECT OWNERS INFORMATION | | | |
| a. Project Owner | b. Point of Contact Name | c. Point of Contact Telephone Number | |
| National Disaster Preparedness Training Center (University of Hawaii) | Karl Kim | 808.956.6865 | |
| 24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (INCLUDE SCOPE, SIZE, AND COST) | | | |
| Project Cost: | Start/Completion Dates: | Client Quote or Other Relevant Data: | |
| \$100K (Haley & Aldrich Fees) | March 2024/Ongoing | | |

The National Disaster Preparedness Training Center at the University of Hawai'i, a member of the National Domestic Preparedness Consortium, engaged Haley & Aldrich to complete a study detailing wildfire risks affecting the railway industry, and develop a data-driven decision support tool to help the Federal Railway Association and rail industry assess the risks and impacts to rail safety and the rail supply chain. The client needed the approach to include the interactions between climate, vegetation, wildfire, and rail infrastructure at two scales: at the large landscape scale and at a smaller local scale. The client also wanted to understand the diversity of wildfire-related indices that can assist in understanding historical patterns of wildfire and the potential impacts of climate change on fire weather and fire activity. Haley & Aldrich is performing a pilot vulnerability assessment on a segment of California freight and passenger railway with the intent of developing a reproducible methodology and decision-support tool that is tested, and that can be subsequently applied across the United States.



Haley & Aldrich wildfire experts compiled information from the most recent peer-reviewed publications and technical reports to present a comprehensive overview of the many facets of wildfire risk to railways, including those stemming from meteorology, topography, human activity, fuels suppression, and long-term climatic changes. We developed detailed descriptions of the three main categories of wildfire risk reduction strategies: prevention, risk mitigation and response, and recovery preparedness. Furthermore, we developed a vulnerability assessment framework building off best practices to understand, analyze, and rank exposures, sensitivities, potential impacts, and adaptive capacities that together indicate an overall vulnerability of railway infrastructure assets to wildfires. We are using this framework to develop a data-driven decision-support tool for the railway industry to assess wildfire risk and prioritize preparation and mitigation to protect rail assets and increase railway resilience.

| 25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT | | |
|---|------------------------------------|--------------------------------------|
| (1) Firm Name | (2) Firm Location (City and State) | (3) Role |
| a Haley & Aldrich, Inc. | Portland, OR | Subconsultant: Wildfire Consultation |

F. Example Projects Which Best Illustrated Proposed Team's Qualifications for This Contract

(Present as many projects as requested by the agency, or 10 projects if not specified. Complete one Section F for each project)

| 20. EXAMPLE PROJECT KEY NUMBER | 21. TITLE AND LOCATION (CITY AND STATE) | 22. YEAR COMPLETED | |
|---|---|--------------------------------------|--------------------------------------|
| 4 | Geotechnical and Environmental Planning/Permitting Support, Hanalei National Wildlife Refuge River Intake Repair, Kaua'i, HI | Professional Services 2022 | Construction (if applicable) 2022 |
| 23. PROJECT OWNERS INFORMATION | | | |
| a. Project Owner | b. Point of Contact Name | c. Point of Contact Telephone Number | |
| U.S. Fish and Wildlife Service | KPFF, Mark Wharry, PE | 503.524.3860 | |
| 24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (INCLUDE SCOPE, SIZE, AND COST) | | | |
| Project Cost: | Start/Completion Dates: | Client Quote or Other Relevant Data: | |
| \$357K (Haley & Aldrich Fees) | 2020/2024 | | |

Haley & Aldrich provided geotechnical engineering and environmental consulting services for KPFF, the prime consultant providing preliminary engineering services for the US Fish and Wildlife Service (USFWS) at their Hanalei National Wildlife Refuge (NWR). USFWS utilizes a water intake on the Hanalei River to regulate water levels in the NWR, which consists of approximately 75 acres of wetland impoundments, 180 acres of taro patches, and 90 acres of wet pasture. The NWR is home to five endangered water birds.

Scouring was evident at the intake location and river morphology may have been altered by recent heavy rain and flooding events. The USFWS requested a study to:

- » Document the existing site conditions of the refuge's earthen levee and main irrigation intake water control infrastructure (WCS).
- » Present construction repair options to the intake and levee.
- » Provide an engineering estimate of probable cost estimate for the identified repair options including relocation of the existing WCS either upstream or downstream of the existing site.



Haley & Aldrich's tasks included:

- » Review of existing information and previous reports that may have information regarding intake.
- » Geotechnical inspection of the intake structure, including hand-auger borings in the levee.
- » Biological surveys, wetland delineation, and determination of the Ordinary High-Water Mark at the project site.
- » Evaluation of environmental and cultural clearances and permits likely to be required for the project, including discussing with KPFF potential design options and permits likely to be triggered by different options.
- » Preparation of a geotechnical memorandum based on results of our field visit and data review, providing our recommendations for embankment restoration and hardening.
- » Preparation of project permit applications and requests for approval, including Clean Water Act Section 404 consultation, Stream Channel Alteration Permit, NEPA CATEX documentation, Endangered Species Act Section 7 consultation; and National Historic Preservation Act Section 106 consultation.

Haley & Aldrich provided construction support to the project by conducting inspections of the foundation system and testing, providing training on endangered species concerns, and reviewing and contractor's compliance with environmental requirements.

| 25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT | | |
|---|------------------------------------|--|
| (1) Firm Name | (2) Firm Location (City and State) | (3) Role |
| a Haley & Aldrich, Inc. | Honolulu, HI | Subconsultant: Geotechnical Engineering, Environmental Permitting and Consulting |

F. Example Projects Which Best Illustrated Proposed Team's Qualifications for This Contract

(Present as many projects as requested by the agency, or 10 projects if not specified. Complete one Section F for each project)

| 20. EXAMPLE PROJECT KEY NUMBER | 21. TITLE AND LOCATION (CITY AND STATE) | 22. YEAR COMPLETED |
|---|---|--|
| 5 | Geotechnical & Environmental Planning/Permitting Support, Restoration of Stream Crossings, Līhu'e-Kōloa Forest Reserve, Kaua'i, HI | Professional Services Ongoing Construction (if applicable) |
| 23. PROJECT OWNERS INFORMATION | | |
| a. Project Owner | b. Point of Contact Name | c. Point of Contact Telephone Number |
| State of Hawai'i Department of Land and Natural Resources (DLNR) | Valerie Suzuki, PE | 808.587.0275 |
| 24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (INCLUDE SCOPE, SIZE, AND COST) | | |
| Project Cost: | Start/Completion Dates: | Client Quote or Other Relevant Data: |
| \$210K (Haley & Aldrich Fees) | 2018-Ongoing (2 nd phase) | |

The Līhu'e-Kōloa Forest Reserve is maintained by the DLNR for multiple uses, including watershed protection, recreation (hiking, horseback riding, hunting, fishing, four-wheel driving, and commercial ecotourism), maintenance of the Keāhua Arboretum, and potential timber and/or biomass production. Access to the Wailua section of the Reserve is via the Wailua Forest Management Road. In mid-April 2018, a storm (4 feet of rain in 24 hours) caused significant damage at four sites along the road. Restoration at these sites is critical to continued public safety and maintenance of the reserve.

The sites are within State Conservation District land. Consultation with US Army Corps; various departments of DLNR (Division of Forestry and Wildlife (DOFAW), Office of Conservation and Coastal Lands (OCCL), State Historic Preservation Division (SHPD), and Commission on Water Resource Management (CWRM)), and Kaua'i County was required to assess the permits and approvals required and the level of State HRS Ch. 343 compliance associated with the restoration projects.



Our scope of work at each of the four restoration sites included:

- » Assessing the damage to infrastructure (e.g., bridges, culverts, paving), and the environmental conditions (e.g., erosion, alterations in stream channels/flows, damage to vegetation, accumulated debris).
- » Proposing restoration recommendations and conceptual design.
- » Conducting geotechnical and structural engineering and watershed and stream flow hydrologic calculations.
- » Assessing the environmental permits that may be needed for the identified design alternatives.
- » Preparing a preliminary concepts report with rough order cost estimates for design and restoration.

In Spring 2021, Haley & Aldrich was retained to continue its support for the next phase of this project (design and construction), providing geotechnical, permitting, and environmental consultation.

| 25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT | | |
|---|------------------------------------|---|
| (1) Firm Name | (2) Firm Location (City and State) | (3) Role |
| a Haley & Aldrich, Inc. | Honolulu, HI | Prime (Phase I): Geotechnical Engineering, Environmental Planning and Permitting, Natural Resources |

F. Example Projects Which Best Illustrated Proposed Team's Qualifications for This Contract

(Present as many projects as requested by the agency, or 10 projects if not specified. Complete one Section F for each project)

| 20. EXAMPLE PROJECT KEY NUMBER | 21. TITLE AND LOCATION (CITY AND STATE) | 22. YEAR COMPLETED | |
|---|--|---|--|
| 6 | Stream Maintenance Permitting Maui and Moloka'i, HI | Professional Services Ongoing | Construction (if applicable) N/A |
| 23. PROJECT OWNERS INFORMATION | | | |
| a. Project Owner | b. Point of Contact Name | c. Point of Contact Telephone Number | |
| County of Maui, Department of Public Works Highways Division | Paul Barany, DPW Highways | 808.270.7447 | |
| 24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (INCLUDE SCOPE, SIZE, AND COST) | | | |
| Project Cost: | Start/Completion Dates: | Client Quote or Other Relevant Data: | |
| \$299K (Haley & Aldrich Fees to date) | Ongoing since 2020 | | |

Haley & Aldrich is supporting the County of Maui with permitting the maintenance clearing of sedimentation basins and stream outlets on Maui and Moloka'i. Our scope of work specifically involves:

- » Program Management:
 - » Coordination with the US Army Corps of Engineers and Hawai'i Department of Health regarding permit conditions and requirements
 - » Assisting with development of permit options, and monthly progress reports and invoicing.
- » Preliminary Site Assessment:
 - » Obtaining background site information and maps to evaluate potential permitting requirements for each site; conducting initial site visits and photographic documentation; preparing preliminary GIS base maps for each site; and coordinating pre-application meetings with regulatory agencies
- » Jurisdictional Mapping of West Maui Sites:
 - » Documenting jurisdictional Waters of the US (WOTUS) under Sections 401/404 Clean Water Act rules; and updating GIS maps with site information
- » Develop and Submit Draft Permit Applications:
 - » Preparing permit applications for each site including WOTUS delineation report, ESA documentation, Section 106 consultation letters, HEPA documentation, SCAP, and site alternatives analysis; and facilitating public meetings if required by regulatory agencies
- » Finalize Permit Applications:
 - » Responding to agency and stakeholder comments and negotiations; preparing final permit applications to submit to agencies; and tracking and manage permits throughout review process



| 25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT | | | |
|---|-----------------------|------------------------------------|--|
| a | (1) Firm Name | (2) Firm Location (City and State) | (3) Role |
| | Haley & Aldrich, Inc. | Honolulu, HI | Prime: Environmental Permitting and Planning |

F. Example Projects Which Best Illustrated Proposed Team's Qualifications for This Contract

(Present as many projects as requested by the agency, or 10 projects if not specified. Complete one Section F for each project)

| 20. EXAMPLE PROJECT KEY NUMBER | 21. TITLE AND LOCATION (CITY AND STATE) | 22. YEAR COMPLETED |
|---|--|---|
| 7 | Environmental Permitting and Geotechnical Engineering Services, Waipi'o Valley Road Island of Hawai'i, HI | Professional Services Construction (if applicable) Ongoing |
| 23. PROJECT OWNERS INFORMATION | | |
| a. Project Owner | b. Point of Contact Name | c. Point of Contact Telephone Number |
| County of Hawai'i Public Works | Keone Thompson | 808.961.8013 |
| 24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (INCLUDE SCOPE, SIZE, AND COST) | | |
| Project Cost: | Start/Completion Dates: | Client Quote or Other Relevant Data: |
| \$837K (Haley & Aldrich Fees) | 2018/2023 | |

Our history with this Hawai'i Island project started in 2018, when Haley & Aldrich conducted roadway hazard evaluations of Laupāhoehoe Point and Waipi'o Valley Roads for the County of Hawai'i Department of Public Works. The roads are affected by geologic slope hazards and related roadway stability issues. The County sought an evaluation of the existing conditions and presentation of conceptual recommendations for short- and long-term stabilization or protective measures that could be implemented to improve the existing conditions. Our initial evaluations indicated that Waipi'o Valley Road required more in-depth rockfall evaluations. That has resulted in additional phases concentrating on short-term and long-term rockfall mitigation measures.



Waipi'o Valley Road is a 0.8-mile-long road that serves as the only access between the Waipi'o Valley Lookout and Waipi'o Black Sand Beach for taro farmers and residents below Waipi'o Valley Point. The overhanging vegetation and rock pose a hazard of failure, and the road has been closed several times after heavy rainfall. In addition, the steep slope on the downhill side of the road has had two shallow landslide events recently measuring in length up to 500 feet.

Haley & Aldrich conducted additional investigation and conceptual design for rockfall mitigation along Waipi'o Valley Road. For a section of the roadway with immediate concerns, we designed short-term emergency mitigation that is under construction. Haley & Aldrich is providing construction management services. The project included assisting the County with all environmental permits needed for the project. Future phases will include rockfall mitigation design, construction management, and additional permitting.

Our scope of work included the following:

- » Evaluation of existing conditions
- » Soil borings, installation of piezometer, inclinometer, and other field investigation methods
- » Geotechnical recommendations for short- and long-term stabilization
- » Geotechnical recommendations for protective measures to improve slope conditions along the roads
- » Natural resources surveys before and during construction to monitor for the endangered Hawaiian hawk
- » Environmental permitting, such as Special Management Area permitting
- » Coordination with SHPD to address archaeological and cultural concerns

| 25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT | | | |
|---|-----------------------|------------------------------------|--|
| a | (1) Firm Name | (2) Firm Location (City and State) | (3) Role |
| | Haley & Aldrich, Inc. | Honolulu, HI | Prime: Environmental Permitting and Geotechnical Engineering |

F. Example Projects Which Best Illustrated Proposed Team's Qualifications for This Contract

(Present as many projects as requested by the agency, or 10 projects if not specified. Complete one Section F for each project)

| 20. EXAMPLE PROJECT KEY NUMBER | 21. TITLE AND LOCATION (CITY AND STATE) | 22. YEAR COMPLETED | |
|---|--|---|------------------------------|
| 8 | Four Mile Creek Bridge Improvements (Bridge #22-7) Hawai'i, HI | Professional Services Ongoing | Construction (if applicable) |
| 23. PROJECT OWNERS INFORMATION | | | |
| a. Project Owner | b. Point of Contact Name | c. Point of Contact Telephone Number | |
| CONSOR Engineers, LLC | Ikaika Kincaid, Project Manager | 451.6822 Ext. 57501 | |
| 24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (INCLUDE SCOPE, SIZE, AND COST) | | | |
| Project Cost: | Start/Completion Dates: | Client Quote or Other Relevant Data: | |
| \$72,000 | Ongoing | | |

Haley & Aldrich is providing geotechnical and environmental services to CONSOR Engineers for construction to improve an existing bridge maintained by the County of Hawai'i, Department of Public Works. The Four Mile Creek Bridge is located immediately west of Hawai'i Belt Road on Kilauea Avenue just south of Haihai Street. The current bridge consists of a two-span reinforced concrete tee beam bridge. The south span is roughly 23'-6" and the north span is roughly 22'-6" with a total bridge length of about 53'-0". The superstructure is comprised of four reinforced concrete beams made of composite with a concrete deck. The overall width of the bridge is approximately 20'-6".

Geotechnical Investigation and Design Services

- » Preparation of a Project Assessment (Phase 1)
- » Assisting with final bridge design (Phase 2)
- » Performing post design services (Phase 3)
- » Conducting a geophysical survey across the abutments and stream banks to determine if lava tubes or voids may be present within 20 feet of the ground surface and that may impact the design. The survey will consist of electrical resistivity tomography (ERT) and ground penetrating radar (GPR), which use electrical and electromagnetic signals to detect geologic materials and anomalies underground to a depth of approximately 20 feet.

Environmental Services

- » Surveying efforts to designate the existing ROW and easements, and update mapping
- » Biological survey efforts for nesting Hawaiian Hawks
- » Army Corps jurisdictional survey
- » Coordination with the Army Corps and preparation of permit applications for work in jurisdictional waters
- » Endangered Species Act Section 7 consultation
- » Preparation of a HEPA environmental assessment
- » Preparation of a Stream Channel Alteration Permit and Conservation District Use Permit



| 25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT | | | |
|---|-----------------------|------------------------------------|---|
| a | (1) Firm Name | (2) Firm Location (City and State) | (3) Role |
| | Haley & Aldrich, Inc. | Honolulu, HI | Subconsultant: Geotechnical Services and Environmental Compliance |

F. Example Projects Which Best Illustrated Proposed Team's Qualifications for This Contract

(Present as many projects as requested by the agency, or 10 projects if not specified. Complete one Section F for each project)

| 20. EXAMPLE PROJECT KEY NUMBER | 21. TITLE AND LOCATION (CITY AND STATE) | 22. YEAR COMPLETED | |
|---|---|---|--|
| 9 | MS4 NPDES Permit Program Management Maui, HI | Professional Services Ongoing | Construction (if applicable) N/A |
| 23. PROJECT OWNERS INFORMATION | | | |
| a. Project Owner County of Maui | b. Point of Contact Name John Smith, PE – Program Manager | c. Point of Contact Telephone Number 808.270.7445 | |
| 24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (INCLUDE SCOPE, SIZE, AND COST) | | | |
| Project Cost: \$4.2M (Haley & Aldrich Fees to date) | Start/Completion Dates: 2015/Ongoing | Client Quote or Other Relevant Data: The Regulator, DOH, has referred to the County's MS4 Program as a "Model Program." | |

Haley & Aldrich is providing program management consulting services to the County of Maui DPW Highways Division for their Municipal Separate Stormwater System (MS4) National Pollutant Discharge Elimination System (NPDES) permit. Our personnel have been involved in this project since the County first obtained their permit in 2004. They were integrally involved in assisting the County of Maui in preparing the NPDES permit application and associated Storm Water Management Program (SWMP) Plan for a newly designated urbanized area.

Haley & Aldrich continues to assist the County with the implementation of their permit program. Our scope includes advising the County on all aspects of the permit program, interfacing with regulators and community groups, and assisting the County with various permit reporting requirements.

Our project activities include:

- » Developing public education and outreach programs
- » Coordinating with stakeholder groups and other permittees in the permit area
- » Mapping the County's storm water drainage system (GIS survey)
- » Establishing storm drainage inspection and illicit discharge survey procedures
- » Assessing construction and post-construction programs and controls
- » Developing site-specific best management practices (BMP) plans for County baseyards
- » Conducting training for County employees on construction and good housekeeping BMPs
- » Reviewing construction bid announcements to check for compliance with required construction and post-construction BMPs
- » Advising on capital improvement projects that would aid in stormwater protection at County facilities
- » Preparing annual reports for the State Department of Health
- » Providing consultation to the County regarding program strategy and implementation
- » Negotiating permit terms with the State Department of Health
- » Addressing watershed impacts to storm water quality



25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

| (1) Firm Name | (2) Firm Location (City and State) | (3) Role |
|---------------|--|---|
| a | Haley & Aldrich, Inc. Makawao, HI | Prime: Environmental Engineering, Consulting, and Program Management |

F. Example Projects Which Best Illustrated Proposed Team's Qualifications for This Contract

(Present as many projects as requested by the agency, or 10 projects if not specified. Complete one Section F for each project)

| 20. EXAMPLE PROJECT KEY NUMBER | 21. TITLE AND LOCATION (CITY AND STATE) | 22. YEAR COMPLETED | |
|---|--|--------------------------------------|------------------------------|
| 10 | Environmental Engineering and Compliance Support, Statewide Airports Statewide, HI | Professional Services | Construction (if applicable) |
| | | Ongoing | |
| 23. PROJECT OWNERS INFORMATION | | | |
| a. Project Owner | b. Point of Contact Name | c. Point of Contact Telephone Number | |
| State of Hawai'i Department of Transportation – Airports Division (HDOT) | Stacy A. Paquette, HDOT-Airports Division | 808.838.8656 | |
| 24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (INCLUDE SCOPE, SIZE, AND COST) | | | |
| Project Cost: | Start/Completion Dates: | Client Quote or Other Relevant Data: | |
| \$11M (Haley & Aldrich Fees) | Ongoing since 2019 | | |

Haley & Aldrich currently provides environmental engineering and compliance support services at 15 airports statewide, under an on-call contract. Services include a wide variety of environmental engineering and regulatory compliance consultation, including inspections, updating plans and permits, mapping environmental assets, and other as-needed special environmental compliance projects.

Our scope of work at the airports includes:

- » Industrial NPDES permit compliance support, including conducting annual sampling.
- » Underground Injection Control (UIC) Permit support, including evaluating and consolidating UIC permits for airport drainage wells, conducting monthly well inspections, preparing permit renewal applications, and providing design for drainage well replacement.
- » Spill Prevention Control and Countermeasures (SPCC) support, including SPCC Plan updates, monthly tank inspections, and facility personnel training.
- » Environmental asset management and mapping/GIS support.
- » Reviewing design submittals for proposed DOTA or airport tenant construction projects to check for compliance with environmental permits and DOTA construction best management practices.
- » Conducting construction site inspections to evaluate contractor compliance with best management practices.
- » Conducting investigations and preparing permit applications and plans and specifications for special environmental engineering design projects.
- » Conducting inspections of airport maintenance facilities and tenant parcels to evaluate compliance with environmental permits, regulations, policies, and practices.
- » Providing training to airport personnel on SPCC, UIC, and tenant inspections, and water quality sampling.
- » Developing a range of environmental guidance documents and fact sheets to aid environmental compliance.
- » Preparing Notices of Intent (NOIs) for general permit coverage and Stormwater Management Plans (SWMPs) for MS4 permit renewals for Honolulu and Kahului Airports.
- » Preparing Notices of Intent (NOIs) for general permit coverage and Stormwater Pollution Prevention Plans for Industrial permit renewals for Honolulu, Kahului and Līhu'e Airports.



| 25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT | | |
|---|-----------------------|--|
| a | (1) Firm Name | (2) Firm Location (City and State) |
| | Haley & Aldrich, Inc. | Honolulu, HI |
| | | (3) Role Prime: Environmental Engineering, Design, Inspections, and Compliance Services |

G. Key Personnel Participation in Example Projects

| 26. NAMES OF KEY PERSONNEL | 27. ROLE IN THIS CONTRACT | 28. EXAMPLE PROJECTS LISTED IN SECTION F | | | | | | | | | |
|----------------------------|--|---|---|---|---|---|---|---|---|---|----|
| (From Section E, Block 12) | (From Section E, Block 13) | (Fill in "example projects key" section below before completing table. Place check under project key number for participation in same or similar role.) | | | | | | | | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| Melissa May, AICP | Program Lead, Principal Resilience Lead | | | | | | | | | | |
| Taylor Chock | Biologist/Environmental Planner, Project Manager | | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Benjamin Bonahoom | Sustainability Coordinator | | | | | | | | | | ✓ |
| Matthew Fong | Environmental Scientist/GIS | | | | | | | | | ✓ | ✓ |
| Rory Earley | Environmental Scientist | | | | | | | | | | |
| Jim Shannon | Senior Biologist/Wetlands Scientist | | | | ✓ | ✓ | ✓ | | ✓ | | |
| Tim Walters, PhD, FWS | Technical Expert | | | | | | ✓ | | | | |
| Simone Simbeck | Principal Environmental Scientist | | | | | | | | | ✓ | ✓ |
| Daniele Spirandelli, PhD | Senior Climate Resilience Specialist | ✓ | ✓ | ✓ | | | | | | | |
| Laura Hanson | Resilience Engagement Specialist | ✓ | ✓ | ✓ | | | | | | | |

| 29. EXAMPLE PROJECTS KEY | | | |
|--------------------------|--|-----|---|
| No. | Title of Example Project (From Section F) | No. | Title of Example Project (From Section F) |
| 1 | WSDOT Coastal Resilience Analysis, WA | 6 | Stream Maintenance Permitting, Maui and Moloka'i, HI |
| 2 | City of San Leandro Sea Level Rise Adaptation Master Plan, San Leandro, CA | 7 | Environmental Permitting and Geotechnical Engineering Services, Waipi'o Valley Road Island of Hawai'i, HI |
| 3 | Wildfire Risk Assessment for Railways, Nationwide | 8 | Four Mile Creek Bridge Improvements (Bridge #22-7), Island of Hawai'i, HI |
| 4 | Geotechnical and Environmental Planning/Permitting Support, Hanalei National Wildlife Refuge River Intake Repair, Kaua'i, HI | 9 | MS4 NPDES Permit Program Management, Maui, HI |
| 5 | Geotechnical and Environmental Planning/Permitting Support, Restoration of Stream Crossings, Lihu'e-Kōloa Forest Reserve, Kaua'i, HI | 10 | Environmental Engineering and Compliance Support, Statewide Airports, Multiple Islands, HI |

H. Additional Information

30. PROVIDE ANY ADDITIONAL INFORMATION REQUESTED BY THE AGENCY. ATTACH ADDITIONAL SHEETS AS NEEDED.

Haley & Aldrich Profile

Haley & Aldrich is committed to delivering efficient and effective project solutions to the County of Hawai'i Office of Sustainability, Climate Change, Equity and Resilience. We offer an experienced local team supported by the expertise of over 1,000 staff in more than 40 nationwide offices. Since our founding in 1957, we have built a solid reputation for delivering quality work for environmental management, planning, engineering, and natural resources projects in Hawai'i, across the United States, and throughout the world. This includes the completion of hundreds of large- and small-scale public projects, including for the County of Hawai'i, County of Maui, City and County of Honolulu, Hawai'i Department of Transportation, Hawai'i Department of Land and Natural Resources, Hawai'i Department of Hawaiian Homelands, U.S. Department of Defense, and numerous private commercial clients. A full suite of our capabilities includes:

NATURAL RESOURCE SERVICES

- » Aquatic, fisheries, and marine biological surveys
- » Biological evaluations, inventories, and reporting
- » Ecological risk and injury assessments
- » Ecosystem health assessment/basin management
- » Endangered Species Act response planning
- » Fisheries biology
- » Geographic Information System (GIS) mapping and modeling
- » Habitat conservation and resource management plans
- » Habitat enhancement, mitigation, and monitoring
- » Hydrology and hydraulic assessment
- » Invasive species management plans
- » Natural Resource Damage Assessment (NRDA)
- » Research and technical reports
- » Species surveys and monitoring for construction



- » Stream, estuary, and lake restoration
- » Threatened, endangered, and sensitive species consultation
- » Toxicology
- » Watershed analysis
- » Wetlands delineation, mitigation, and monitoring

PLANNING AND PERMITTING

- » Environmental assessments and impact statements (NEPA/HEPA)
- » Environmental permitting
- » Strategic planning and facilitation
- » Climate adaptation planning and policy analysis
- » Long-range community and land use planning
- » Infrastructure and transportation planning

PROGRAM MANAGEMENT (STORMWATER AND ENVIRONMENTAL COMPLIANCE PROGRAMS)

- » Design and construction reviews
- » Inspection and audits
- » MS4 program management
- » Regulatory program compliance planning, scheduling, and budgeting
- » Regulatory reviews, coordination, and permit condition negotiations
- » Training programs, exams, training material

ENVIRONMENTAL ENGINEERING SERVICES

- » Bioremediation
- » Due diligence, Phase I and Phase II Environmental Site Assessments
- » Environmental assessments and impact statements
- » Ecosystem restoration
- » Emerging contaminants/PFAS
- » Environmental compliance
- » Environmental engineering
- » Environmental monitoring
- » Environmental planning and permitting



- » Regulatory support
- » Remediation design

- » Environmental risk assessment
- » Groundwater and surface water modeling
- » Hazardous materials management
- » Hydrogeologic services
- » Stormwater management and treatment
- » Technical support during construction
- » Water quality assessment

SUPPORT SERVICES

- » Community outreach and consultation
- » GIS: spatial analysis, posters, graphics/CADD
- » Grant writing
- » Publications: brochures, guidelines, promotional materials
- » Training programs, exams, training materials

GEOTECHNICAL ENGINEERING SERVICES

- » Construction dewatering modeling and permitting
- » Construction management
- » Deep excavation shoring
- » Earth retaining structures
- » Erosion control
- » Foundation design
- » Geotextile evaluation and application
- » Ground improvement
- » Laboratory services
- » Numerical modeling
- » Roadway/pavement design
- » Rock and soil retaining structures
- » Rockfall mitigation
- » Seismic engineering/risk analysis



- » Shoring and deep excavation design
- » Slope and landslide stabilization
- » Soil amendment
- » Tunneling
- » Waterfront geotechnology

CONSTRUCTION MANAGEMENT SERVICES

- » Rockfall mitigation
- » Foundation construction
- » Best Management Practices Plans and Inspections
- » Construction monitoring for species and habitat

Personnel Experience

Haley & Aldrich’s Hawai’i team provides environmental, natural resources, geotechnical, and consulting services. Our extensive local knowledge and collaborative relationships with local agencies and regulators, as well as our proven responsiveness and thoroughness, enable us to provide efficient and cost-effective approaches to your projects.

Our Hawai’i team is led by **Simone Simbeck, Melissa May, and Dennis Peters**, who oversee our Hawai’i operations. With a combined 70+ years of experience delivering a wide range of environmental services for county, federal, state, and private infrastructure projects across the state, Simone, Melissa and Dennis bring established collaborative relationships with regulatory staff, as well as expert knowledge and understanding of regulatory compliance. Our Hawai’i-based Project Managers for natural and environmental resources projects include **Simone Simbeck, Principal Environmental Consultant** and **Taylor Chock, Biologist/Ecologist and Project Manager**, and for engineering and geotechnical projects are **Daniel Shinsato, P.E., Geotechnical Engineer**, and **Mikki Slentz, P.E., Civil/Environmental Engineer**. We have summarized the qualifications and experiences of our senior principals, proposed project managers, and key staff below. Their resumes and the resumes for additional staff who would support the client are included in Section E of this submittal.

We pride ourselves in working with our clients to understand the needs for each project and to create specific solutions. We can often recommend approaches that minimize the need for permits and approvals, resulting in time and cost savings for our clients.



Melissa May, AICP
PRINCIPAL RESILIENCE LEAD

Melissa has over 20 years of experience advancing climate resilience across policy landscapes and built environments in Hawai'i through inclusive, context-sensitive planning approaches. She leads award-winning climate adaptation, planning, and infrastructure resilience projects, ensuring integration of policy, planning, and community priorities across complex systems. She has partnered with state and local agencies on projects including resilient design guidance for the City and County of Honolulu, policy analysis of managed retreat for the State of Hawai'i, integrating climate change into land use policies for the County of Kaua'i and state Department of Hawaiian Home Lands, and the development of climate adaptation plans for public infrastructure and private development on Maui, O'ahu, and Hawai'i Island. These efforts have garnered widespread recognition and three national awards from the American Planning Association. As a resilience lead, Melissa remains committed to furthering climate resilience in Hawai'i through building capacity locally and leveraging Haley & Aldrich's firmwide expertise.



Dennis Peters, REM
**PRINCIPAL ENVIRONMENTAL MANAGER
AND TECHNICAL MANAGER**

With over 30 years of experience, most of which are based in Honolulu, **Dennis has the breadth and depth of experience to quickly help clients respond to any environmental cleanup, compliance, design, or permitting matter.** His experience includes project and program management for both environmental and facilities/infrastructure indefinite delivery contracts with the State of Hawai'i. City & County of Honolulu, County of Maui, County of Kaua'i, U.S. Air Force, U.S. Army Corps of Engineers, Hawai'i National Guard, and the U.S. Navy. His technical experience includes conducting or overseeing site assessments, environmental baseline surveys, groundwater evaluations, Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and non-CERCLA site characterization and remediation, Resource Conservation and Recovery Act (RCRA) waste disposal, industrial wastewater treatment process evaluations and design, solid waste facility design and construction, remediation system design, and feasibility study/cost estimates. He has led the preparation of Spill Prevention, Control, and Countermeasures (SPCC) Plans, Storm Water Pollution Prevention Plans (SWPPPs), and NPDES and other permitting for various facilities and infrastructure improvements.



Daniele Spirandelli, PhD
SENIOR TECHNICAL SPECIALIST

Daniele Spirandelli, Ph.D. **has over 20 years' experience in environmental planning, including over 10 years' experience leading climate resilience planning projects.** She conducts climate change vulnerability assessments using the best available science, regional data sets, integrating client resilience goals and priorities. She collaborates with engineers, asset managers and community partners to develop stand-alone climate resilience-adaptation plans, and integrate climate change into CIPs, infrastructure plans and long-term planning documents. Prior to joining Haley & Aldrich, she was faculty at the University of Hawai'i and Hawai'i Sea Grant where she partnered with public agencies and communities in applied multi-disciplinary climate adaptation and resilience projects. She maintains strong relationships with both local agencies and the University across multiple programs, departments, and faculty.



Taylor Chock
**PROJECT BIOLOGIST AND
ENVIRONMENTAL SCIENTIST**

Taylor offers diverse experience in environmental planning, permitting, and biological sciences, having managed preparation of environmental impact statements (EISs), environmental assessments (EAs), and environmental site assessments (ESAs), and conducted hazardous materials (HAZMAT) sampling for clients throughout Hawai'i and the Pacific Rim. Taylor has prepared federal, state, and county permit and regulatory requirements required for shoreline and in-water work and has successfully executed terrestrial and marine biological surveys and sampling. She also has molecular biology and ecological research experience. **Taylor is meticulous and diligent in her project management, and consistently makes sure clients' needs are top priority.**

Staffing and Teaming Partners

For every project, Haley & Aldrich will work with County of Hawai'i Office of Sustainability, Climate Change, Equity and Resilience project managers to understand project requirements and desired outcomes. We will then create an internal project team of appropriate staff to support all project aspects, including a project team manager to oversee required technical resources and project delivery. Because our project team members have substantial experience working for municipalities and other public agencies across Hawai'i, we anticipate being able to provide the majority of the identified project category tasks in-house. For specialty services that may be needed, we have long-standing working relationships with several highly qualified Hawai'i-based archaeologists, land surveyors, and civil/structural engineers.

Firm Experience

From our Hawai'i offices in Honolulu and Maui, Haley & Aldrich has provided environmental, planning, and engineering services to local private, state, and municipal clients since 2015. Our Hawai'i-based staff has grown steadily to more than 26 engineers and scientists since opening our Honolulu office in 2015, including staff residing on the islands of Maui and Hawai'i. We also closely collaborate with Haley & Aldrich's mainland offices to provide additional capacity and specialized technical expertise in areas such as evaluations of emerging contaminants, climate vulnerability assessments and resiliency, and advanced imaging and GIS techniques, allowing us to efficiently provide our clients with comprehensive in-house expertise for a wide range of services. Combined with the broad of expertise offered by our staff (as represented in the personnel resumes in Section E and project examples in Section F), the diversity and success of our projects demonstrate that we are poised to meet our client's project needs.

Haley & Aldrich has extensive experience providing services to public entities and is specifically qualified for the following professional services disciplines listed in the RFQ:

- » Ecology
- » Forestry (Watershed Management)
- » General Natural Resources Management and Biological Sciences Series

An overview and highlights of our capabilities in these and other service areas is provided below.

ENVIRONMENTAL PLANNING AND PERMITTING

Haley & Aldrich Hawai'i-based personnel have extensive and diverse experience preparing environmental planning documents and conducting regulatory studies for a wide variety of public project types. A significant number of our projects involve working with clients and consultant teams to design solutions that minimize environmental impacts, develop mitigations to offset unavoidable adverse effects, and prepare and submit required planning and permitting documentation. Our Hawai'i staff have provided a full range of environmental planning and/or permitting services including those listed below for more than 100 projects encompassing a mix of marine, shoreline, wetland, river, and upland habitats:

- » Federal NEPA (National Environmental Policy Act) and HRS Chapter 343 EA (Environmental Assessment) and EIS (Environmental Impact Statement) documents.
- » Environmental, terrestrial, wetland, stream, and marine biology assessments and impact reports/statements.
- » Federal compliance documents, including U.S. Army Corps of Engineers permitting, Endangered Species Act Section 7 consultation, Essential Fish Habitat Assessment, and Coastal Zone Management Act Consistency Determination.
- » State and local permits such as Conservation District Use, Special Management Area, Stream Channel Alteration, and Shoreline Setback Variances.
- » Community outreach and consultation, and strategic planning.

Haley & Aldrich also offers Environmental Planning services to support infrastructure projects in marine, shoreline, wetland, and upland habitats. Our staff includes experts in environmental planning and permitting, marine and terrestrial biology, endangered species evaluations, and USFWS and NOAA consultations.

Recent Hawai'i environmental planning/permitting/natural resources projects in addition to those shown in Section F include:

- » **Hanalei River Intake Repair**, including NEPA and HEPA Environmental Assessments, state and federal permitting for in-water work, and geotechnical services for the restoration of a river levee embankment to ensure the continued water source for the Hanalei National Wildlife Refuge. Required extensive outreach with cultural and Riverkeeper stakeholders. Owner: US Fish & Wildlife Service.
- » **Maui Stream Clearing**, consisting of assessing the permitting requirements for County stream clearing activities, HEPA/NEPA requirements, determining Army Corps jurisdiction, wetland delineations, and preparing permit documentation. Client: County of Maui.

- » **Four Mile Creek Bridge Replacement**, including HEPA EA and environmental permitting consultation, as well as geotechnical investigation and design for the County's bridge replacement project. Client: County of Hawai'i.
- » **Kahului Airport Wildlife Hazard Assessment (WHA)**, involving a year of monthly surveys of wildlife habitat and behavior at the airport, developing a WHA report, and preparation of a Wildlife Hazard Management Plan to meet FAA requirements. Client: State of Hawai'i, Department of Transportation, Airports.
- » **Nāpili Pump Stations No. 1-4 and Force Main Replacement**, consisting of conducting a biological field survey, preparing a biological report, and coordinating with the US Fish & Wildlife Service to obtain their Endangered Species Act Section 7 consultation concurrence. Owner: County of Maui, Department of Environmental Management.

Natural Resources Management

In support of our planning and permitting practice, Haley & Aldrich offers a full range of natural resources-related consulting services to support infrastructure and natural system projects in marine, shoreline, wetland, and upland habitats. Our staff includes recognized experts in marine biology, fisheries, endangered species evaluations, USFWS and NOAA consultations, and environmental permitting. Haley & Aldrich's natural resources team has expertise in consulting on projects that have the potential to affect endangered species or sensitive habitats and has provided comprehensive ecological services to a wide variety of public entities. We work with clients and consultant teams to design projects that minimize environmental impacts, to develop mitigations to offset unavoidable impacts, and to then prepare and submit required permitting documentation.

Solid Waste Planning

Solid waste planning and management in Hawai'i is constrained by resources, land use restrictions, community concerns, and remote locations. Our staff are familiar with these concerns and our expertise navigating permitting and environmental compliance processes extends to solid and hazardous waste management through working closely with municipalities and stakeholders in a manner that emphasizes building community trust. We approach solid and hazardous waste management by bringing a strategic focus to our client's priorities and constraints. We can help navigate permitting processes; provide groundwater, leachate, landfill gas, and cover monitoring; provide construction quality oversight; and help you stay on top of your regulatory compliance. By bringing a strategic focus to your priorities we can serve as a valuable partner working with you to manage your planning, operational and construction requirements.

Our Hawai'i-based personnel have experience in solid and hazardous waste management planning for the DoD in Hawai'i (Air Force, NAVFAC, and the Army), and various counties and municipalities. Currently, our Hawai'i team is supporting solid and hazardous waste management compliance requirements through our multimedia compliance contract with HDOT Airports. Our local team is enhanced by numerous solid waste practitioners located in our mainland offices.

Our expertise in emerging contaminants is being called upon across the U.S. Per- and polyfluoroalkyl substances (PFAS) have been widely detected in municipal landfills due to the ubiquitous use of PFAS in consumer products. Haley & Aldrich's emerging contaminant site management experts are leading the nation in assessing and addressing PFAS contamination, including for solid waste facilities.

Climate Change Adaptation and Resilience Planning

Haley & Aldrich understands the broad, rapidly emerging needs for planning and adapting development and infrastructure to the impacts of climate change and natural hazards. Resiliency and sustainability is a core pillar of our business, and our resilience team includes two senior experts with extensive experience in Hawai'i, **Melissa May and Daniele Spirandelli**. Haley & Aldrich's expertise includes assessing risks and vulnerabilities and designing technical solutions to mitigate or adapt the built environment to hazards including sea level rise, storms, flooding, wildfire, drought, erosion, heat, and volcanic and seismic events. We have led adaptation planning processes at various scales, from individual facilities, to infrastructure systems, to neighborhoods and communities. We also assist clients in identifying and obtaining grant funding and conducting cost-benefit analysis to evaluate adaptation strategies. Our approach is context-sensitive, ensuring that solutions are appropriate to each place and informed by equitable, culturally sensitive community and stakeholder engagement. We also integrate cutting-edge modeling, GIS analysis, and visualization to provide actionable resilience strategies.

Haley & Aldrich incorporates forward-looking climate science and projections into our planning and design work to enhance community and built environmental resiliency. In Hawai'i, we regularly consult and utilize the latest guidance and projections from the State of Hawai'i and City and County of Honolulu Climate Commission. Our staff has also led the integration of sea level rise and climate change considerations into long-range planning documents for the Department of Hawaiian Home Lands, Honolulu Department of Planning and Permitting, Honolulu Board of Water Supply, and County of Kaua'i.

Melissa May, AICP, our Principal and Resilience Lead, has led several award-winning efforts to integrate resilience into plans, policies, and regulations at state and county levels in Hawai'i. She sits on the ACEC Resilience Committee and has served as project manager for the following efforts:

- » Two **statewide studies on managed retreat** for the State of Hawai'i Office of Planning and Sustainable Development Coastal Zone Management Program
- » **Climate Adaptation Design Principles** for the City and County of Honolulu
- » Integration of sea level rise into a **new zoning overlay and constraint district** for the County of Kaua'i
- » Preparation of the **first climate adaptation plan for a County beach park** on Maui
- » A **climate adaptation workshop** for the TOD neighborhood of Iwilei-Kapālama
- » A community-based **working group on coastal resilience and adaptation** for the North Shore of O'ahu
- » A study of **adaptation solutions for two coastal highways** for HDOT

Daniele Spirandelli, PhD, specializes in utilizing nature-based solutions for hazards mitigation. Since 2014, Danielle has conducted various climate resiliency planning projects in Hawai'i, including:

- » Conducting a vulnerability assessment of O'ahu's wastewater treatment services to climate change impacts;
- » Investigating residential water conservation behaviors on O'ahu;
- » Assessing the vulnerability of coastal wastewater infrastructure to coastal hazards and climate variability;
- » Predicting Hawai'i water demand under climate change;
- » Providing consulting and advisory services for climate resiliency and sustainability planning for Hawai'i County (land use planning and policy assessment of Hawai'i County's emergency management and mitigation for the Hawai'i Volcano Recovery Plan and Multi-Hazard Mitigation Plan); and
- » Conducting a community-wide vulnerability assessment for West Kaua'i

Haley & Aldrich brings a wealth of experience in assessing transportation network and infrastructure vulnerabilities across multiple hazard types, including seismic risks, wildfires, flooding, coastal storms and all-hazards assessments. Our expertise in hazard assessment, infrastructure resilience, and adaptation planning enables us to provide state and local agencies with the data-driven insights needed to prioritize capital improvements, reduce long-term risks, and enhance transportation system adaptability in the face of increasing climate and seismic threats. In Oregon, we conducted **seismic hazard evaluations for the Emergency Transportation Routes (ETR) program**, assessing critical roadways in the Portland-Vancouver metropolitan region to ensure rural and urban connectivity post-earthquake. **In California, Haley & Aldrich supports wildfire resilience planning for railway lines** in a study for the Federal Railway Association to quantify wildfire risks by rail segments, based on indicators of exposure, sensitivity and adaptive capacity. In Washington, Haley & Aldrich is working with the **Washington State Department of Transportation (WSDOT) to assess climate-driven coastal hazard risks to critical roadways**. This includes analysis of flood risks, utilizing storm surge, sea level rise, and extreme precipitation modeling, to identify high-risk segments and recommend a series of nature-based solutions to enhance transportation resilience across a diverse range of coastal communities.

Our national team of environmental and engineering experts have assisted many clients in assessing potential indirect, related, and cumulative potential risks and impacts of climate change and natural hazards on water supply and quality, transportation infrastructure, soil/slope stability, transportation, public health and safety, infrastructure, development, and natural resources. The risk characterization is followed by risk mitigation planning and engineering design that addresses resiliency to risks, assisting clients to prioritize projects that improve resiliency to and recovery from potential hazards. Haley & Aldrich recently led a **multi-hazard risk assessment for the Oregon Department of Energy** for their Energy Security Plan. Our team evaluated the vulnerability of statewide energy systems including liquid fuels, electricity and natural gas to multiple hazards, including wildfires, floods, catastrophic earthquake (including tsunamis, liquefaction and landslide risk), and extreme weather events including winter storms and high wind events. Future climate projections were incorporated into multiple hazard scenarios.

Finally, our HRS Chapter 343 documents address global warming from multiple perspectives, including climate and global warming, weather-related hazards (current and forecasted) attributed to or exacerbated by climate change; and greenhouse gas emissions (air quality) of the proposed action. We have provided environmental planning and permitting services for a variety of climate change flood-related projects in Hawai'i, such as the **Emergency Repair of the Hanalei National Wildlife Refuge Hanalei River Intake**, and the repair of damaged low-water roadway crossings in **DLNR's Līhu'e-Kōloa Forest Reserve**.

PROJECT AND PROGRAM MANAGEMENT (STORMWATER AND ENVIRONMENTAL COMPLIANCE PROGRAMS)

Haley & Aldrich excels as being trusted advisors to help our clients navigate complex infrastructure or environmental compliance programs. For example, we have brought our geohazards expertise to large landowners (e.g., HDOT-Highways, County of Hawai'i, Department of Land and Natural Resources, and private entities and trusts) to evaluate entire corridors or portfolios of land holdings for geohazards. This allows landowners to develop a strategic, rather than reactive, approach to budgeting for repairs and capital improvements. The work has included prioritizing higher hazards and developing a schedule and costs for budgeting purposes, conducting investigations and designs, providing bid and construction-phase services, and coordinating with other departments and agencies on issues such as environmental, natural, and historical resources.

For our environmental clients, we take pride in helping to alleviate their concerns that they may not be “doing the right thing.” Of the myriad environmental compliance and management support projects Haley & Aldrich has worked on, the best examples of our current work in this service area is our **HDOT-Airports On-Call Environmental Compliance Support** contract and the **County of Maui MS4 Program Management** contract.

Under this HDOT-Airports contract, we provide environmental compliance assistance for 15 state airports, covering all major Hawaiian islands. Our scope of work is detailed in our project description in Section F and includes management of the HDOT-Airport's full environmental compliance program, including industrial permit compliance, Underground Injection Control Program permit compliance, Spill Prevention Control and Countermeasures compliance, design review and construction inspection support for all HDOT-Airports and airport tenant construction projects, providing a variety of inspection and training activities to evaluate compliance with environmental regulations, and developing a variety of environmental guidance documents and fact sheets to aid environmental compliance.

Haley & Aldrich stormwater compliance experts also provide full NPDES program management services. Haley & Aldrich serves as the consulting manager of **County of Maui's MS4 NPDES permit program**. Our program management services include permit application preparation; negotiation with regulators; program design, management, and implementation; and stakeholder communication. Haley & Aldrich seeks to find ways to streamline program management and the County's MS4 program was referred to by HDOH as a “model program” while costing a fraction of other programs in the state. We have an excellent and collaborative working relationship with the NPDES program regulator, the State Department of Health Clean Water Branch, which helps our clients achieve concurrence on program elements.

GEOGRAPHIC INFORMATION SYSTEM (GIS) MAPPING

In support of our wide range of technical services, our Hawaii offices offer a comprehensive approach to data management, visualization, and delivery. Our local GIS team, supplemented by our national GIS analysts, are adept in spatial-data management, analysis, cartograph, and application development. We use Esri's ArcGIS software suite as the primary geospatial platform and can develop and maintain web-based map interfaces that allow users with little to no GIS experience to leverage the power of GIS tools and data to aid in visualization and decision making. With our experience on the various contracts we've provided GIS services for, we are adaptable to producing deliverables that meet the client's GIS standards and guidelines, and we can readily support, generate and/or manage spatial data to be used on an internal client GIS database.

Past Performance

Haley & Aldrich prides itself on working closely with our clients to develop a clear understanding of project needs right from the start so that we can deliver projects efficiently and the results are in line with the client's goals. We look at the individual system pieces – technical, environmental, constructability, schedule, and community – to understand the complete picture and to determine how we can deliver solutions that address each component. We are devoted to our clients and work with them to control costs, meet project schedules, and provide high-quality work products and services. Often, clients tell us our ability to foster ongoing collaboration and see the big picture are what sets us apart.

We obtain more than 95% of our projects through repeat business and client referrals, and frequently receive praise from clients for our outstanding performance on their projects. For example, in our \$5M/year environmental engineering project for HDOT-Airports, we are proactive in addressing issues potentially affecting schedules and quickly adjust resources in response to demands of the project delivery schedule. Haley & Aldrich was selected in 2019 to provide these services for 13 neighbor island airports. In 2022, Honolulu and Kahului Airports, previously handled by another consultant, were added to our project portfolio due to the high quality of work and expertise we provided on the initial contract.

“

The County of Maui relies heavily on Hart Crowser (now Haley & Aldrich) to help the County manage their MS4 program and other environmental compliance matters. Hart Crowser staff are technically proficient, proactive in helping us understand and address regulatory demands, and extremely responsive when complicated issues arise on short notice. I cannot overstate their value to the County, and I highly recommend them for stormwater and environmental consultation.”

John Smith, PE

Highways Division Chief, County of Maui -
Department of Public Works

Our high frequency of repeat clients, both in the public and private sectors, is indicative of client satisfaction with the quality of services we provide. We have not had to correct deficiencies in our work but, if such problems were to occur, we would devote the full resources of our company to resolve them in a fair and equitable manner to our client's satisfaction.

Quality of Work – Quality Control and Assurance

Haley & Aldrich is committed to technical excellence and providing value and quality. We have a Quality Management System (QMS) to ensure consistency and quality in all our work products and services. The QMS includes staff training requirements, standards of practice and technical writing guidance, and written requirements for quality assurance reviews and signature authority for work products. The project manager clearly identifies the project team and roles, the scope of work, tasks and deliverables schedule, and quality review process (responsibility and schedule). All work products receive an independent review and written signoff to assure technical accuracy, clarity, consistency, and format, and to correct errors or omissions.

The QMS for each project is implemented through a principal-in-charge who oversees the day-to-day work of the project manager. The principal-in-charge has ultimate responsibility for ensuring all activities and deliverables adhere to corporate and client requirements. At Haley & Aldrich, we understand that providing quality work is a team effort among any project's staff. Checks and balances among team members support the project manager to provide periodic review and consultation that helps guide the work scope actions throughout the course of each project.

Our Quality Management System

To maximize quality and consistency of our work products that Haley & Aldrich QMS includes:

- » **Staff training**
- » **Technical writing guidance and style guides**
- » **Standard protocol/checklist for quality assurance, requires three levels of review for most deliverables**
- » **Special technical reviews as needed**

Ability to Meet Schedules and Control Costs

Haley & Aldrich knows that the keys to successful project outcomes include a clear understanding of the scope of work, reaching agreement on work plans, and developing realistic schedules and budgets. These keys are implemented into every project we take on, with standard protocols our staff follow to ensure schedules flow, milestones are met, and costs are controlled.

- » Project managers have access to powerful computer software programs and company-wide applications with administrative and technical support that enables them to easily set up, update, track, and report in real-time on virtually every aspect of a project.
- » Working with our client's project managers to find effective solutions around issues, those predicted and encountered.
- » Team members maintain a working schedule to show, for example, dates of deliverables and equipment needs.
- » For quality assurance, deliverables are scheduled for QMS review in advance of delivery to the client.

At Haley & Aldrich, we have a proven system in place to specifically monitor and control project costs. A spreadsheet-based tracking and forecasting process is used to scrutinize project costs with schedule requirements. From the beginning of every project, both effort and cost are forecast throughout the life of the project by identifying specific tasks and their timing, level of effort, and associated costs. For complicated projects, major tasks can be broken down into subtasks with known levels of effort. When tasks are not well defined, we communicate clearly to the client any assumptions we used to arrive at our cost estimate. We also discuss these assumptions with clients so there is a distinct understanding of the uncertainties.

Project managers update expenditures and revise forecasts for effort and costs so they can communicate and correct potential problems before they happen. Given the dynamic nature of projects, we expect changes to occur. We meet deadlines and maintain cost control because we can identify and assess the impact of any changes and, if necessary, take appropriate corrective actions. If changes to the project scope and budget are needed, we discuss the impacts with the client before finalizing a change order.

Communication is a key element to project success in terms of controlling schedules and costs. The assigned project manager becomes the Point of Contact (POC). They maintain strong communication with clients and internal staff and provide periodic progress reports. We also have a structured system of seeking feedback from clients to learn how we can improve our efforts to better serve their needs. Our commitment to meeting schedules and controlling costs has been tested and proven on the Waipi'o Valley Road Short-Term Safety Improvements project. The County of Hawai'i and the Waipi'o community wanted quick action on the section of the road where roadway hazards were deemed most immediate. Haley & Aldrich applied the resources needed, employing our strong project management and communication skills, to complete design and obtain environmental permits within four months of project initiation. Construction was completed within two months of issuing the bid documents, for a total project period of six months.

Innovative Methods

Our initial approach to project management is to examine the big picture and assist our clients to clearly define achievable goals and objectives. We strive to address environmental considerations up front with the goal of reducing the regulatory burden in the planning/design phase. This approach is less expensive and less time consuming than addressing environmental considerations after design. As detailed earlier with respect to our work in PFAS, we continually push the envelope in developing and bringing new technologies to our clients. Our national reach allows us to bring the leading expertise to our clients in Hawai'i.

There's always room for improvement, so we are always seeking new ways to streamline efforts, reduce errors in sampling and reporting, and easing the regulatory burdens encountered in planning/design phases. We advocate for our clients and understand there is a balance between meeting regulatory requirements and resource realities. A few key project examples are listed here:

- » **Lahaina Stormwater BMP Design, County of Maui.** Following the tragic wildfires on August 8, 2023 that affected more than 2,000 acres of Lahaina Town, Haley & Aldrich worked with the County of Maui to implement immediate and long-term stormwater protection measures. We used an innovative approach to conduct surveys using vehicle-mounted cameras to establish post fire conditions of streets, curbs and gutters, sidewalks, roadways, and street surface infrastructure such as manholes and storm drainage systems before the heavy debris removal began. We also used drone-mounted LiDAR and Photogrammetry technology to collect data to assess infrastructure damage, soil loss areas, erosional features, flow paths, and sensitive cultural/natural resources to be protected. The data and deliverables were made available through an interactive, browser-based GIS interface.
- » **MS4 NPDES Permit Program Management, County of Maui.** When the County of Maui was faced with obtaining their first NPDES permit for discharges from their MS4, they turned to us for help. Haley & Aldrich staff successfully assisted Maui to initiate and implement an MS4 permit program that has been embraced by regulators, the environmental advocacy community, and County workers. Strong stakeholder outreach and engagement, and frequent communication with the County project manager have been key to the program's success.
- » **Downtown Block 4 LLC (formerly TOPA Management) Environmental Compliance and Consultation.** Since 2016, Haley & Aldrich and their staff members have provided environmental compliance services for Downtown Block LLC's NPDES permit to discharge once-through non-contact cooling water to the harbor from Topa Financial Center Tower in downtown Honolulu. Work includes monthly and quarterly effluent monitoring, receiving water monitoring, zone of mixing dilution analysis study, and as-needed groundwater well sampling at three onsite wells, as well as multi-probe calibration and maintenance. The project regularly exceeded monitoring water quality compliance goals, due to the quality of the non-contact cooling water. We developed a strategy, including drilling a new source/test well, for demonstrating that the exceedances were unrelated to the project. As client advocates, we were able to work with regulators to address their concerns and successfully resolve the situation in the client's best interest while meeting regulator expectations.
- » **Ka'iwi Scenic Shoreline Slope and Rockfall Hazard Assessment, O'ahu, HI** – Haley & Aldrich staff conducted a hazard and risk assessment for the Ka'iwi State Scenic Shoreline after, during construction of an unrelated project, concern arose for hazards to walkers along a scenic shoreline path. Our staff mobilized quickly to evaluate hazards along the path so mitigation could be conducted in conjunction with the ongoing construction work. Haley & Aldrich quickly assessed the hazard and completed a numerical risk assessment for the 2-mile path. We prepared a report and developed plans and specifications for mitigation, and supported DLNR in bid support and construction monitoring. The entire project design, public procurement, and construction from initial site visit to project completion was undertaken in less than five months (March through August). Furthermore, construction was completed before the unrelated construction project was done so trail closures and disruptions were minimized.
- » **Federal Center South – Energy Piles and Seismic Support** – Haley & Aldrich repurposed traditional ground improvement to provide a seismic cutoff wall for this new waterfront headquarters for the U.S. Army Corps of Engineers, Seattle District. We also developed “energy piles” consisting of geothermal loops cast into the building support piles, providing an alternative and renewable energy source for the building. The energy piles allowed one traditional boiler and one chiller to be eliminated, saving about 100,000 gallons of water per year.

» **Husky Stadium Redevelopment and NCAA Track Relocation – Teamwork on Seismic Design** – Since its initial development in the 1930s, Husky Stadium has undergone several renovations and additions. Much geotechnical information was available at the site. Haley & Aldrich staff worked with MKA, 360 Architects, and Turner Construction to take advantage of all the existing data, resulting in a nominal and targeted exploration program for the reconstruction. A key element of our design success was convincing the City of Seattle that an improved seismic site classification for the facility was reasonable based on our reanalysis of the data and the planned construction. The improved seismic classification saved hundreds of thousands of dollars from the construction and renovation costs.

- » **We excel at helping permittees “do more with less”,** as evidenced in our work for the CoM MS4 permit program. From the beginning, we leveraged Maui’s existing programs, tapped into community support, and sought partnerships with other permittees to share permit obligations and costs. We are efficient and smart in our MS4 program management, and The Department of Health Clean Water Branch (DOH CWB) has called Maui’s MS4 program a “model program.”
- » **We understand the nuances of permit regulations and respectfully stand up for our client against regulatory overreach.** DOH suggested Maui County baseyards be deemed “industrial” and require an industrial Storm Water Pollution Control Plan (SWPCP) with annual sampling. Our team was able to convince DOH that baseyards did not warrant regulation as industrial facilities. Our proposal for preparation of a simple site-specific BMP plan with annual inspection and training (no sampling) was accepted by DOH.
- » **We actively monitor proposed changes to stormwater rules and anticipate their effects on our clients’ permit programs.** When Hart Crowser (now Haley & Aldrich) learned of DOH’s proposed new onerous permit conditions in 2016, we alerted other small MS4 permittees and led the initiative to have DOH remove the permit conditions that would have required small MS4 permittees to meet most of the same requirement as the large MS4 permittee on O’ahu. We facilitated a small MS4 working group and worked extensively with other MS4 permittees in preparing a coordinated response to the proposed permit. We continue to monitor proposed rule changes.
- » **We seek out ways to bring new approaches to the program.** Rather than rely on brochures and pamphlets for industrial business education for Maui’s permit program, we piloted a social marketing effort modeled after the trends in environmental outreach. The task included a survey of industrial businesses to understand perceptions and barriers to change, data analysis and developing a program to engage businesses and the community in a way that would improve stormwater compliance.

Client References

The table below provides the names and phone numbers of recent clients who may be contacted to provide an assessment of our quality of work, responsiveness, and technical expertise on their projects.

| CLIENT CONTACT | PHONE | PROJECT |
|---|--------------|---|
| Albert Hahn, County of Maui Department of Public Works Highways Division | 808.270.7506 | MS4 NPDES Permit Program Management, County of Maui, HI |
| Stacy A. Paquette, State of Hawai’i Department of Transportation, Airports Division | 808.838.8656 | Environmental Engineering and Compliance Support, 15 State Airports, Various Islands, HI |
| Valerie Suzuki, State of Hawai’i Department of Land and Natural Resources | 808.531.1308 | Restoration of Damaged Stream Crossings Phase I and II, Līhu’e-Kōloa Forest Reserve, Kaua’i, HI |
| Mike Hunnemann, KAI Hawai’i | 808.791.3980 | Environmental Planning and Permitting, Waiāhole Bridge Replacement, O’ahu, HI |
| DeAnna Hayashi, Austin Tsutsumi & Associates | 808.533.3646 | Subsurface Environmental Investigation, Central O’ahu Food Hub, O’ahu, HI |

I. Authorized Representative

The foregoing is a statement of facts.

31. SIGNATURE

32. DATE

Melissa May

June 30, 2025

33. NAME AND TITLE

Melissa May, AICP, Principal Resilience Lead

Architect – Engineer Qualifications

Part II – General Qualifications

(If a firm has branch offices, complete for each specific branch office seeking work.)


SOLICITATION
NUMBER (IF ANY)

PROF SVC 25-26

| | | | | |
|---|---|------------------------------|--|--|
| 2A. FIRM (OR BRANCH OFFICE) NAME Haley & Aldrich, Inc. – Oahu and Maui Offices | | | 3. YEAR ESTABLISHED 1957 | 4. UNIQUE ENTITY IDENTIFIER J7H1MTJZVMW5 |
| 2B. STREET 6 Waterfront Plaza, 500 Ala Moana Boulevard, Suite 6-250 | | | 5. OWNERSHIP | |
| 2C. CITY Honolulu | 2D. STATE HI | 2E. ZIP CODE 96813 | a. Type Corporation | |
| 6A. POINT OF CONTACT NAME AND TITLE Dennis Peters, REM, Principal Environmental Manager | | | b. Small Business Status N/A | |
| 6B. TELEPHONE NUMBER 808.587.7747 | 6C. E-MAIL ADDRESS DPeters@haleyaldrich.com | | 7. NAME OF FIRM (IF BLOCK 2A IS A BRANCH OFFICE) Haley & Aldrich, Inc. | |
| 8A. FORMER FIRM NAME(S) (IF ANY) Hart Crowser, Inc. | | | 8B. YEAR ESTABLISHED 1957 | 8C. UNIQUE ENTITY IDENTIFIER 04-706-7749 |

| 9. EMPLOYEES BY DISCIPLINE | | | | 10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS | | |
|----------------------------|-------------------------------------|---------------------|------------|--|---|-------------------------------------|
| a. Function Code | b. Discipline | c. No. of Employees | | a. Profile Code | b. Experience | c. Revenue Index Number (see below) |
| | | (1) Firm | (2) Branch | | | |
| | Accounting | 41 | 0 | A06 | Airports; Terminals and Hangars; Freight | 9 |
| 02 | Administrative | 45 | 1 | B02 | Bridges | 8 |
| 08 | CAD Technician | 10 | 0 | D02 | Dams (Earth; Rock; Dikes; Levees) | 5 |
| 12 | Civil Engineer | 88 | 2 | D08 | Dredging Studies and Design | 1 |
| 16 | Construction Manager | 16 | 0 | E09 | Environmental Impact Studies, Assessments or Statements | 5 |
| 23 | Environmental Management Specialist | 2 | 0 | E12 | Environmental Remediation | 10 |
| 23 | Environmental Remediation Engineer | 127 | 5 | F05 | Forensic Engineering | 4 |
| | Facilities | 0 | 0 | H01 | Harbors; Jetties, Piers, Ship Terminals | 8 |
| | Field Engineer/Technician | 14 | 0 | H07 | Highways; Streets; Airfield Paving; Parking Lots | 9 |
| 30 | Field Geologist | 16 | 0 | P04 | Pipelines (Cross-Country-Liquid & Gas) | 4 |
| 30 | Geologist | 164 | 2 | P12 | Power Generation, Transmission, Distrib. | 9 |
| 27 | Geotechnical Engineer | 143 | 2 | R03 | Railroad; Rapid Transit | 8 |
| | Geotechnical Lab | 0 | 0 | S03 | Seismic Designs & Studies | 4 |
| 29 | GIS | 9 | 0 | S04 | Sewage Collection, Treatment & Disposal | 5 |
| | Health & Safety | 8 | 0 | S05 | Soils & Geologic Studies; Foundations | 9 |
| | HR | 13 | 0 | S07 | Solid Wastes; Incineration; Landfills | 2 |
| | Hydrogeologist | 43 | 0 | T02 | Testing & Inspection Services | 6 |
| | IT | 18 | 0 | T06 | Tunnels & Subways | 2 |
| | Lean | 1 | 0 | W02 | Water Resources; Hydrology; Groundwater | 5 |
| | Legal/Risk Management | 7 | 0 | W03 | Water Supply; Treatment and Distribution | 3 |
| | Marketing/Business Dev. | 23 | 0 | | | |
| 42 | Mechanical Engineer | 3 | 0 | | | |
| | Scientist | 141 | 10 | | | |
| | Other | 45 | 0 | | | |
| | Total | 977 | 22 | | | |

| | | | | | |
|---|----|--|---|--|--|
| 11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (INSERT REVENUE INDEX NUMBER SHOWN AT RIGHT) | | Professional Services Revenue Index Number | | | |
| a. Federal Work | 7 | 1. Less than \$100,000 | 6. \$2 million to less than \$5 million | | |
| b. Non-Federal Work | 10 | 2. \$100,000 to less than \$250,000 | 7. \$5 million to less than \$10 million | | |
| c. Total Work | 10 | 3. \$250,000 to less than \$500,000 | 8. \$10 million to less than \$25 million | | |
| | | 4. \$500,000 to less than \$1 million | 9. \$25 million to less than \$50 million | | |
| | | 5. \$1 million to less than \$2 million | 10. \$50 million or greater | | |

| | |
|--|---------------------------------|
| 12. AUTHORIZED REPRESENTATIVE (THE FOREGOING IS A STATEMENT OF FACTS) | |
| a. Signature  | b. Date June 30, 2025 |
| c. Name and Title Dennis Peters, REM, Principal Environmental Manager | |

Architect – Engineer Qualifications

Part II – General Qualifications

(If a firm has branch offices, complete for each specific branch office seeking work.)


SOLICITATION
NUMBER (IF ANY)

PROF SVC 25-26

| | | | | |
|---|---|------------------------------|--|--|
| 2A. FIRM (OR BRANCH OFFICE) NAME Haley & Aldrich, Inc. – Portland, OR | | | 3. YEAR ESTABLISHED 1957 | 4. UNIQUE ENTITY IDENTIFIER J7H1MTJZVMW5 |
| 2B. STREET 4386 S Macadam Ave, Ste 101 | | | 5. OWNERSHIP | |
| 2C. CITY Portland | 2D. STATE OR | 2E. ZIP CODE 97239 | a. Type Corporation | |
| 6A. POINT OF CONTACT NAME AND TITLE Dennis Peters, REM, Principal Environmental Manager | | | b. Small Business Status N/A | |
| 6B. TELEPHONE NUMBER 503.620.7284 | 6C. E-MAIL ADDRESS DPeters@haleyaldrich.com | | 7. NAME OF FIRM (IF BLOCK 2A IS A BRANCH OFFICE) Haley & Aldrich, Inc. | |
| 8A. FORMER FIRM NAME(S) (IF ANY) Hart Crowser, Inc. | | | 8B. YEAR ESTABLISHED 1957 | 8C. UNIQUE ENTITY IDENTIFIER 04-706-7749 |

| 9. EMPLOYEES BY DISCIPLINE | | | | 10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS | | |
|----------------------------|-------------------------------------|---------------------|------------|--|---|-------------------------------------|
| a. Function Code | b. Discipline | c. No. of Employees | | a. Profile Code | b. Experience | c. Revenue Index Number (see below) |
| | | (1) Firm | (2) Branch | | | |
| | Accounting | 41 | 0 | A06 | Airports; Terminals and Hangars; Freight | 9 |
| 02 | Administrative | 45 | 1 | B02 | Bridges | 8 |
| 08 | CAD Technician | 10 | 1 | D02 | Dams (Earth; Rock; Dikes; Levees) | 5 |
| 12 | Civil Engineer | 88 | 2 | D08 | Dredging Studies and Design | 1 |
| 16 | Construction Manager | 16 | 0 | E09 | Environmental Impact Studies, Assessments or Statements | 5 |
| 23 | Environmental Management Specialist | 2 | 0 | E12 | Environmental Remediation | 10 |
| 23 | Environmental Remediation Engineer | 127 | 0 | F05 | Forensic Engineering | 4 |
| | Facilities | 0 | 0 | H01 | Harbors; Jetties, Piers, Ship Terminals | 8 |
| | Field Engineer/Technician | 14 | 0 | H07 | Highways; Streets; Airfield Paving; Parking Lots | 9 |
| 30 | Field Geologist | 16 | 1 | P04 | Pipelines (Cross-Country-Liquid & Gas) | 4 |
| 30 | Geologist | 164 | 6 | P12 | Power Generation, Transmission, Distrib. | 9 |
| 27 | Geotechnical Engineer | 143 | 4 | R03 | Railroad; Rapid Transit | 8 |
| | Geotechnical Lab | 0 | 0 | S03 | Seismic Designs & Studies | 4 |
| 29 | GIS | 9 | 0 | S04 | Sewage Collection, Treatment & Disposal | 5 |
| | Health & Safety | 8 | 0 | S05 | Soils & Geologic Studies; Foundations | 9 |
| | HR | 13 | 0 | S07 | Solid Wastes; Incineration; Landfills | 2 |
| | Hydrogeologist | 43 | 1 | T02 | Testing & Inspection Services | 6 |
| | IT | 18 | 0 | T06 | Tunnels & Subways | 2 |
| | Lean | 1 | 0 | W02 | Water Resources; Hydrology; Groundwater | 5 |
| | Legal/Risk Management | 7 | 1 | W03 | Water Supply; Treatment and Distribution | 3 |
| | Marketing/Business Dev. | 23 | 1 | | | |
| 42 | Mechanical Engineer | 3 | 0 | | | |
| | Scientist | 141 | 5 | | | |
| | Other | 45 | 2 | | | |
| | Total | 977 | 25 | | | |

| | | | | | |
|---|----|--|---|--|--|
| 11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (INSERT REVENUE INDEX NUMBER SHOWN AT RIGHT) | | Professional Services Revenue Index Number | | | |
| a. Federal Work | 7 | 1. Less than \$100,000 | 6. \$2 million to less than \$5 million | | |
| b. Non-Federal Work | 10 | 2. \$100,000 to less than \$250,000 | 7. \$5 million to less than \$10 million | | |
| c. Total Work | 10 | 3. \$250,000 to less than \$500,000 | 8. \$10 million to less than \$25 million | | |
| | | 4. \$500,000 to less than \$1 million | 9. \$25 million to less than \$50 million | | |
| | | 5. \$1 million to less than \$2 million | 10. \$50 million or greater | | |

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|--|---------------------------------|
| 12. AUTHORIZED REPRESENTATIVE (THE FOREGOING IS A STATEMENT OF FACTS) | |
| a. Signature  | b. Date June 30, 2025 |
| c. Name and Title Dennis Peters, REM, Principal Environmental Manager | |

Architect – Engineer Qualifications

Part II – General Qualifications

(If a firm has branch offices, complete for each specific branch office seeking work.)


SOLICITATION
NUMBER (IF ANY)

PROF SVC 25-26

| | | | | |
|---|---|------------------------------|--|--|
| 2A. FIRM (OR BRANCH OFFICE) NAME Haley & Aldrich, Inc. – Seattle | | | 3. YEAR ESTABLISHED 1957 | 4. UNIQUE ENTITY IDENTIFIER J7H1MTJZVMW5 |
| 2B. STREET 3131 Elliott Ave W, Suite 600 | | | 5. OWNERSHIP | |
| 2C. CITY Seattle | 2D. STATE WA | 2E. ZIP CODE 98121 | a. Type Corporation | |
| 6A. POINT OF CONTACT NAME AND TITLE Dennis Peters, REM, Principal Environmental Manager | | | b. Small Business Status N/A | |
| 6B. TELEPHONE NUMBER 808.587.7747 | 6C. E-MAIL ADDRESS DPeters@haleyaldrich.com | | 7. NAME OF FIRM (IF BLOCK 2A IS A BRANCH OFFICE) Haley & Aldrich, Inc. | |
| 8A. FORMER FIRM NAME(S) (IF ANY) Hart Crowser, Inc. | | | 8B. YEAR ESTABLISHED 1957 | 8C. UNIQUE ENTITY IDENTIFIER 04-706-7749 |

| 9. EMPLOYEES BY DISCIPLINE | | | | 10. PROFILE OF FIRM'S EXPERIENCE AND ANNUAL AVERAGE REVENUE FOR LAST 5 YEARS | | |
|----------------------------|-------------------------------------|---------------------|------------|--|---|-------------------------------------|
| a. Function Code | b. Discipline | c. No. of Employees | | a. Profile Code | b. Experience | c. Revenue Index Number (see below) |
| | | (1) Firm | (2) Branch | | | |
| | Accounting | 41 | 2 | A06 | Airports; Terminals and Hangars; Freight | 9 |
| 02 | Administrative | 45 | 4 | B02 | Bridges | 8 |
| 08 | CAD Technician | 10 | 0 | D02 | Dams (Earth; Rock; Dikes; Levees) | 5 |
| 12 | Civil Engineer | 88 | 3 | D08 | Dredging Studies and Design | 1 |
| 16 | Construction Manager | 16 | 0 | E09 | Environmental Impact Studies, Assessments or Statements | 5 |
| 23 | Environmental Management Specialist | 2 | 0 | E12 | Environmental Remediation | 10 |
| 23 | Environmental Remediation Engineer | 127 | 7 | F05 | Forensic Engineering | 4 |
| | Facilities | 0 | 0 | H01 | Harbors; Jetties, Piers, Ship Terminals | 8 |
| | Field Engineer/Technician | 14 | 0 | H07 | Highways; Streets; Airfield Paving; Parking Lots | 9 |
| 30 | Field Geologist | 16 | 4 | P04 | Pipelines (Cross-Country-Liquid & Gas) | 4 |
| 30 | Geologist | 164 | 9 | P12 | Power Generation, Transmission, Distrib. | 9 |
| 27 | Geotechnical Engineer | 143 | 32 | R03 | Railroad; Rapid Transit | 8 |
| | Geotechnical Lab | 0 | 0 | S03 | Seismic Designs & Studies | 4 |
| 29 | GIS | 9 | 1 | S04 | Sewage Collection, Treatment & Disposal | 5 |
| | Health & Safety | 8 | 0 | S05 | Soils & Geologic Studies; Foundations | 9 |
| | HR | 13 | 2 | S07 | Solid Wastes; Incineration; Landfills | 2 |
| | Hydrogeologist | 43 | 9 | T02 | Testing & Inspection Services | 6 |
| | IT | 18 | 0 | T06 | Tunnels & Subways | 2 |
| | Lean | 1 | 0 | W02 | Water Resources; Hydrology; Groundwater | 5 |
| | Legal/Risk Management | 7 | 0 | W03 | Water Supply; Treatment and Distribution | 3 |
| | Marketing/Business Dev. | 23 | 2 | | | |
| 42 | Mechanical Engineer | 3 | 1 | | | |
| | Scientist | 141 | 2 | | | |
| | Other | 45 | 4 | | | |
| | Total | 977 | 82 | | | |

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|---|----|--|---|--|--|
| 11. ANNUAL AVERAGE PROFESSIONAL SERVICES REVENUES OF FIRM FOR LAST 3 YEARS (INSERT REVENUE INDEX NUMBER SHOWN AT RIGHT) | | Professional Services Revenue Index Number | | | |
| a. Federal Work | 7 | 1. Less than \$100,000 | 6. \$2 million to less than \$5 million | | |
| b. Non-Federal Work | 10 | 2. \$100,000 to less than \$250,000 | 7. \$5 million to less than \$10 million | | |
| c. Total Work | 10 | 3. \$250,000 to less than \$500,000 | 8. \$10 million to less than \$25 million | | |
| | | 4. \$500,000 to less than \$1 million | 9. \$25 million to less than \$50 million | | |
| | | 5. \$1 million to less than \$2 million | 10. \$50 million or greater | | |

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|---|---------------------------------|
| 12. AUTHORIZED REPRESENTATIVE (THE FOREGOING IS A STATEMENT OF FACTS) | |
| a. Signature  | b. Date June 30, 2025 |
| c. Name and Title Dennis Peters, REM, Principal Environmental Manager | |